

SEQUENCE LISTING

<110> BELLICUM PHARMACEUTICALS, INC.

<120> DUAL CONTROLS FOR THERAPEUTIC CELL ACTIVATION OR ELIMINATION

<130> BEL-2025-PC

<140> PCT/US2016/066371

<141> 2016-12-13

<150> 62/267,277

<151> 2015-12-14

<160> 2364

<170> PatentIn version 3.5

<210> 1

<211> 590

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1

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ctgaatatgg gccaaacagg atatctgtgg taagcagttc ctgccccggc tcagggccaa	180
gaacagatgg aacagctgaa tatggggcaa acaggatata tgtggttaagc agttcctgcc	240
ccggctcagg gccaagaaca gatggtcccc agatgcggtc cagccctcag cagtttctag	300
agaaccatca gatgtttcca ggggtgcccc aggacctgaa atgacctgtg gccttatttg	360
aactaaccaa tcagttcgct tctcgcttct gtctgcgcgc ttatgctccc cgagctcaat	420
aaaagagccc acaaccctc actcggggcg ccagtcctcc gattgactga gtcgcccggg	480
taccctgtga tccaataaac cctcttgtag ttgcatccga cttgtggtct cgctgttctt	540
tgggagggtc tcctctgagt gattgactac ccgtcagcgg gggctctttca	590

<210> 2

<211> 321

<212> DNA

<213> Homo sapiens

<400> 2

ggagtgcagg tggaaacat ctccccagga gacgggcgca ctttcccaa gcgcggccag	60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttctcccg	120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa	180
gaagggggtt cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat	240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat	300
gtggagcttc taaaactgga a	321

<210> 3
<211> 107
<212> PRT
<213> Homo sapiens

<400> 3
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 4
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 4
tctggcgggtg gatccgga

18

<210> 5
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 5
Ser Gly Gly Ser Gly
1 5

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

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 6
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6

<210> 7
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 7
Val Asp
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<210> 8
<211> 846
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 8
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tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgca gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
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gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
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gctcactctg aagacctgca gtccctcctg cttaggggtcg ctaatgctgt ttcggtgaaa 780
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acatca 846

<210> 9
<211> 282
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
275 280

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 10
gctagcaga 9

<210> 11
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 11
Ala Ser Arg
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<210> 12
<211> 57
<212> DNA
<213> Thosea asigna virus

<400> 12
gccgagggca ggggaagtct tctaactgc ggggacgtgg aggaaaatcc cgggccc 57

<210> 13
<211> 19
<212> PRT
<213> Thosea asigna virus

<400> 13
Ala Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 14
<211> 999
<212> DNA
<213> Homo sapiens

<400> 14
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gaggaacctc tagtggtgaa ggtggaagag ggagataacg ctgtgctgca gtgcctcaag	120
gggacctcag atggccccac tcagcagctg acctggtctc gggagtcccc gcttaaacc	180
ttcttaaaac tcagcctggg gctgccaggc ctgggaatcc acatgaggcc cctggccatc	240
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ccccctctg agaaggcctg gcagcctggc tggacagtca atgtggaggg cagcggggag	360
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aaagaccgcc ctgagatctg ggagggagag cctccgtgtc tcccaccgag ggacagcctg	540
aaccagagcc tcagccagga cctcaccatg gccctgggct ccacactctg gctgtcctgt	600
ggggtacccc ctgactctgt gtccaggggc cccctctcct ggacccatgt gcacccaag	660
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gtaatggaga cgggtctgtt gttgccccg gccacagctc aagacgctgg aaagtattat	780
tgtcaccgtg gcaacctgac catgtcattc cacctggaga tctgtgctcg gccagtacta	840
tggcactggc tgctgaggac tgggtggctgg aagggtctcag ctgtgacttt ggcttatctg	900
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aggaaaagaa agcgaatgac tgacccacc aggagattc	999

<210> 15
 <211> 333
 <212> PRT
 <213> Homo sapiens

<400> 15
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp

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

<210> 16
 <211> 590
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

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ggaaaaatac ataactgaga atagagaagt tcagatcaag gtcaggaaca gatggaacag	120

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ctgaatatgg gccaaacagg atatctgtgg taagcagttc ctgccccggc tcagggccaa	180
gaacagatgg aacagctgaa tatgggccaa acaggatatac tgtggtaagc agttcctgcc	240
ccggctcagg gccaaagaaca gatgggtcccc agatgcgggtc cagccctcag cagtttctag	300
agaaccatca gatgtttcca ggggtgccccca aggacctgaa atgacctgt gccttatttg	360
aactaaccaa tcagttcgct tctcgcttct gttcgcgcg cttctgctccc cgagctcaat	420
aaaagagccc acaaccctc actcggggcg ccagtcctcc gattgactga gtcgcccggg	480
taccctgtga tccaataaac cctcttgagc ttgcatccga cttgtggtct cgctgttcct	540
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<210> 17

<211> 8622

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 17

tgaaagacc cactgtagg tttggcaagc tagcttaagt aacgccattt tgcaaggcat	60
ggaaaaatac ataactgaga atagaaaagt tcagatcaag gtcaggaaca gatggaacag	120
ctgaatatgg gccaaacagg atatctgtgg taagcagttc ctgccccggc tcagggccaa	180
gaacagatgg aacagctgaa tatgggccaa acaggatatac tgtggtaagc agttcctgcc	240
ccggctcagg gccaaagaaca gatgggtcccc agatgcgggtc cagccctcag cagtttctag	300
agaaccatca gatgtttcca ggggtgccccca aggacctgaa atgacctgt gccttatttg	360
aactaaccaa tcagttcgct tctcgcttct gttcgcgcg cttctgctccc cgagctcaat	420
aaaagagccc acaaccctc actcggggcg ccagtcctcc gattgactga gtcgcccggg	480
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cgtccgggat cgggagacc ctgcccagg accaccgacc caccaccggg aggttaagctg	660
gccagcaact tatctgtgtc tgtccgattg tctagtgtct atgactgatt ttatgcgcct	720
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cttccttgaa	ataaacatgg	agtattcaga	atgtgtcata	aatattttcta	attttaagat	5040
agtatctcca	ttggctttct	actttttctt	ttattttttt	ttgtcctctg	tctttccattt	5100
gttggtgttg	ttgtttgttt	gtttgtttgt	tggttggttg	gttaattttt	ttttaagat	5160
cctacactat	agttcaagct	agactattag	ctactctgta	accaggggtg	accttgaagt	5220
catgggtagc	ctgctgtttt	agccttccca	catctaagat	tacaggtagt	agctatcatt	5280
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tagtgagagc caacgctccg gctcaggtgt caggttggtt tttgagacag agtctttcac	5580
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acccaactta atcgccttgc agcacatccc ctttcgccca gctggcgtaa tagcgaagag	5700
gcccgcaccg atcgcccttc ccaacagttg cgcagcctga atggcgaatg gcgcctgatg	5760
cggtattttc tccttacgca tctgtgcggt atttcacacc gcatatgggtg cactctcagt	5820
acaatctgct ctgatgccg atagttaagc cagccccgac acccgccaac acccgctgac	5880
gcgccctgac gggcttgtct gctcccggca tccgcttaca gacaagctgt gaccgtctcc	5940
gggagctgca tgtgtcagag gttttcaccg tcatcaccga aacgcgcgat gacgaaaggg	6000
cctcgtgata cgcctatttt tataggttaa tgtcatgata ataatggttt cttagacgtc	6060
aggtggcact tttcggggaa atgtgcgcgg aacccttatt tgtttatttt tctaaataca	6120
ttcaaatatg tatccgctca tgagacaata accctgataa atgcttcaat aatattgaaa	6180
aaggaagagt atgagtattc aacatttccg tgtcgccctt attccctttt ttgcggcatt	6240
ttgccttcct gtttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca	6300
gttgggtgca cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag	6360
ttttcgcccc gaagaacgtt ttccaatgat gagcactttt aaagtctctgc tatgtggcgc	6420
ggtattatcc cgtattgacg ccgggcaaga gcaactcggg cggcgcatat actattctca	6480
gaatgacttg gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt	6540
aagagaatta tgcagtgctg ccataaccat gagtgataac actgcggcca acttacttct	6600
gacaacgatc ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt	6660
aactcgcctt gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga	6720
caccacgatg cctgtagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact	6780
tactctagct tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc	6840
acttctgcgc tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga	6900
gcgtgggtct cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt	6960
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gataggtgcc tcaactgatta agcattggta actgtcagac caagtttact catatatact	7080
ttagattgat ttaaaacttc atttttaatt taaaaggatc taggtgaaga tcctttttga	7140
taatctcatg accaaaatcc cttaacgtga gttttcgttc cactgagcgt cagaccccg	7200
agaaaagatc aaaggatctt cttgagatcc tttttttctg cgcgtaatct gctgcttgca	7260
aacaaaaaaa ccaccgctac cagcggtggt ttgtttgccg gatcaagagc taccaactct	7320
ttttccgaag gtaactggct tcagcagagc gcagatacca aatactgtcc ttctagtgt	7380
gccgtagtta ggccaccact tcaagaactc tgtagcaccg cctacatacc tcgctctgct	7440

aatcctgtta ccagtggctg ctgccagtgg cgataagtcg tgtcttaccg ggttggactc	7500
aagacgatag ttaccggata aggcgcagcg gtcgggctga acgggggggtt cgtgcacaca	7560
gcccagcttg gagcgaacga cctacaccga actgagatac ctacagcgtg agcattgaga	7620
aagcgccacg cttcccgaag ggagaaaggc ggacaggtat ccggtaagcg gcagggtcgg	7680
aacaggagag cgcacgaggg agcttccagg gggaaacgcc tggatatcttt atagtcctgt	7740
cgggtttcgc cacctctgac ttgagcgtcg atttttgtga tgctcgtcag gggggcggag	7800
cctatggaaa aacgccagca acgcggcctt tttacggttc ctggcctttt gctggccttt	7860
tgctcacatg ttctttcctg cgttatcccc tgattctgtg gataaccgta ttaccgcctt	7920
tgagtgagct gataccgctc gccgcagccg aacgaccgag cgcagcagat cagtgagcga	7980
ggaagcggaa gagcgcccaa tacgcaaacc gcctctcccc gcgcgttggc cgattcatta	8040
atgcagctgg cagcagaggt ttcccgaact gaaagcgggc agtgagcgcga acgcaattaa	8100
tgtgagttag ctactcatt aggcaccca ggctttacac tttatgcttc cggctcgtat	8160
gttgtgtgga attgtgagcg gataacaatt tcacacagga aacagctatg accatgatta	8220
cgccaagctt tgctcttagg agtttcctaa tacatcccaa actcaaatat ataaagcatt	8280
tgacttgttc tatgccctag ggggcggggg gaagctaagc cagctttttt taacatttaa	8340
aatgttaatt ccattttaaa tgcacagatg tttttatttc ataagggttt caatgtgcat	8400
gaatgctgca atattcctgt taccaaagct agtataaata aaaatagata aacgtggaaa	8460
ttacttagag tttctgtcat taacgtttcc ttcctcagtt gacaacataa atgcgctgct	8520
gagcaagcca gtttgcattc gtcaggatca atttcccatt atgccagtca tattaattac	8580
tagtcaatta gttgattttt atttttgaca tatacatgtg aa	8622

<210> 18

<211> 678

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 18

ctcgagggcg tccaagtcga aaccattagt cccggcgatg gcagaacatt tcctaaaagg	60
ggacaaacat gtgtcgtcca ttatacaggc atgttgaggg acggcaaaaa ggtggacagt	120
agtagagatc gcaataaacc tttcaaattc atgttgggaa aacaagaagt cattagggga	180
tgggaggagg gcgtggctca aatgtccgtc ggccaacgcg ctaagctcac catcagcccc	240
gactacgcat acggcgctac cggacatccc ggaattattc cccctcacgc taccttggtg	300
tttgacgtcg aactgttgaa gctcgaagtc gagggagtgc aggtggaaac catctcccca	360
ggagacgggc gcaccttccc caagcgcggc cagacctgcg tgggtgcacta caccgggatg	420
cttgaagatg gaaagaaagt tgattcctcc cgggacagaa acaagccctt taagtttatg	480

ctaggcaagc aggaggtgat ccgaggctgg gaagaagggg ttgcccagat gagtgtgggt 540
cagagagcca aactgactat atctccagat tatgcctatg gtgccactgg gcacccaggc 600
atcatcccac cacatgccac tctcgtcttc gatgtggagc ttctaaaact ggaatctggc 660
ggtggatccg gagtcgag 678

<210> 19
<211> 222
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 19
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Val Glu Gly Val Gln
100 105 110

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

Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys
130 135 140

Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu Gly
145 150 155 160

Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met Ser
165 170 175

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

Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val Phe
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195

200

205

Asp Val Glu Leu Leu Lys Leu Glu Ser Gly Gly Gly Ser Gly
 210 215 220

<210> 20
 <211> 1200
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 20
 atgctcgagg gaggcgagg ggagactatc tccccaggag acgggcgcac cttccccaag 60
 cgcgccaga cctgcgtggt gcactacacc gggatgcttg aagatggaaa gaaagttgat 120
 tcctcccgga acagaaacaa gccctttaag tttatgctag gcaagcagga ggtgatccga 180
 ggctgggaag aaggggttgc ccagatgagt gtgggtcaga gagccaaact gactatatct 240
 ccagattatg cctatggtgc cactgggcac ccaggcatca tcccaccaca tgccactctc 300
 gtcttcgatg tggagcttct aaaactggaa tctggcgggtg gatccggagt cgacggattt 360
 ggtgatgtcg gtgctcttga gagtttgagg ggaaatgcag atttggctta catcctgagc 420
 atggagccct gtggccactg cctcattatc aacaatgtga acttctgccg tgagtccggg 480
 ctccgcaccc gcactggctc caacatcgac tgtgagaagt tgcggcgctc cttctcctcg 540
 ctgcatttca tgggtggagg gaagggcgac ctgactgcca agaaaatggt gctggctttg 600
 ctggagctgg cgcgccagga ccacggtgct ctggactgct gcgtggtggt cattctctct 660
 cacggctgtc aggccagcca cctgcagttc ccaggggctg tctacggcac agatggatgc 720
 cctgtgtcgg tcgagaagat tgtgaacatc ttcaatggga ccagctgccc cagcctggga 780
 gggaagccca agctcttttt catccaggcc tgtggtgggg agcagaaaga ccatgggttt 840
 gaggtggcct ccacttcccc tgaagacgag tcccctggca gtaaccccga gccagatgcc 900
 accccgttcc aggaaggttt gaggaccttc gaccagctgg acgcatatc tagtttgccc 960
 acacccagtg acatctttgt gtcctactct actttcccag gttttgtttc ctggagggac 1020
 cccaagagtg gtccttggtg cgttgagacc ctggacgaca tctttgagca gtgggctcac 1080
 tctgaagacc tgcagtcctt cctgcttagg gtcgctaatt ctgtttcggt gaaagggatt 1140
 tataaacaga tgcctggttg ctttaatttc ctccggaaaa aacttttctt taaaacatca 1200

<210> 21
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 21
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 22
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 22
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15
 Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30
 Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45
 Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60
 Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80
 Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95
 Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110
 Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu Lys

115

120

125

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
275 280

<210> 23

<211> 846

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 23

ggatttggtg atgtcggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180

tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240

gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300

ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360

ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420

ctggggagggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480

gggtttgagg tggcctccac ttcccctgaa gacgagtcctc ctggcagtaa ccccgagcca 540
 gatgccaccc cgttcagga aggtttgagg accttcgacc agctggccgc catatctagt 600
 ttgccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
 agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
 acatca 846

<210> 24
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 24
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
275 280

<210> 25
<211> 846
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 25
ggatttggtg atgtcggtag tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgag gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcagc gctgtcaggc cagccacctg cagttccagc gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggaggga agccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
gggtttgagg tggcctccac tttccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttcttgg 660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt cagttcctcc ggaaaaaact tttctttaaa 840

<210> 26
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 26
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Arg Val Ala Asn Ala
 245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Gln Phe
 260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
 275 280

<210> 27
 <211> 846
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 27
 ggatttggtg atgtcggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
 ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
 tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
 tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
 gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
 ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
 ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
 ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
 gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
 gatgccaccc cgttccagga aggtttgagg accttcgacc agctggccgc catatctagt 600
 ttgcccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttctctg 660
 agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt cagttcctcc ggaaaaaact tttctttaaa 840
 acatca 846

<210> 28
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 28
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15
 Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30
 Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45
 Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60
 Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80
 Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95
 Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110
 Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu Lys
 115 120 125
 Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys
 130 135 140
 Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160
 Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175
 Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190
 Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205
 Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220
 Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240
 Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255
 Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Gln Phe
 260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
 275 280

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

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 29
 ggcgttcaag tagaaacaat cagcccagga gacggaagga ctttccccaac acgaggccaa 60
 acatgcgtag ttcattatac tgggatgctc gaagatggaa aaaaagtaga tagtagtaga 120
 gaccgaaaca aaccatttaa atttatgttg ggaaaacaag aagtaataag gggctgggaa 180
 gaaggtgtag cacaaatgtc tgttggccag cgcgcaaaac tcacaatttc tcctgattat 240
 gcttacggag ctaccggcca ccccggcac ataccacctc atgccacact ggtgtttgac 300
 gtcgaattgc tcaaactgga a 321

<210> 30
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 30
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 31
 <211> 321

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 31
ggagtgcagg tggagacgat tagtcctggg gatgggagaa cctttccaaa gcgcggtcag 60
acctgtgttg tccactacac cggtatgctg gaggacggga agaaggtgga ctcttcacgc 120
gatcgcaata agcctttcaa gttcatgctc ggcaagcagg aggtgatccg ggggtgggag 180
gagggcgtgg ctcatatgtc ggtcgggcaa cgagcgaagc ttaccatctc acccgactac 240
gcgtatgggg caacggggca tccgggaatt atccctcccc acgctacgct cgtattcgat 300
gtggagctct tgaagcttga g 321

<210> 32
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 32
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 33
<211> 1002
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
Page 23

polynucleotide"

```

<400> 33
atgccccctc ctagactgct gtttttcctg ctcttttctca cccaatgga agttagacct      60
gaggaaccac tggtcgttaa agtggaagaa ggtgataatg ctgtcctcca atgccttaaa      120
gggaccagcg acggaccaac gcagcaactg acttgagacc gggagtcccc tctcaagccg      180
tttctcaagc tgtcacttgg cctgccaggt cttggtattc acatgcgccc ctttgccatt      240
tggctcttca tattcaatgt gtctcaacaa atgggtggat tctacctttg ccagcccggc      300
cccccttctg agaaagcttg gcagcctgga tggaccgtca atgttgaagg ctccggtgag      360
ctgttttagat ggaatgtgag cgaccttggc ggactcgggt gcggactgaa aaataggagc      420
tctgaaggac cctcttctcc ctccggtgag ttgatgtcac ctaagctgta cgtgtggggc      480
aaggaccgcc ccgaaatctg ggagggcgag cctccatgcc tgccgcctcg cgattcactg      540
aaccagtctc tgtcccagga tctcactatg gcgcccggat ctactctttg gctgtcttgc      600
ggcgttcccc cagatagcgt gtcaagagga cctctgagct ggaccacagt acaccctaag      660
ggccctaaga gcttggtgag cctggaactg aaggacgaca gaccgcacg cgatatgtgg      720
gtaatggaga ccggccttct gctccctcgc gctaccgcac aggatgcagg gaaatactac      780
tgtcatagag ggaatctgac tatgagcttt catctcgaaa ttacagcacg gcccgttctt      840
tggcattggc tcctccggac tggaggctgg aaggtgtctg ccgtaacact cgcttacttg      900
attttttgcc tgtgtagcct gggtgggatc ctgcatcttc agcgagccct tgtattgcgc      960
cgaaaaagaa aacgaatgac tgaccctaca cgacgattct ga                          1002

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<210> 34
<211> 333
<212> PRT
<213> Artificial Sequence

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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        polypeptide"

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<400> 34
Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1          5          10          15

```

```

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
          20          25          30

```

```

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
          35          40          45

```

```

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
          50          55          60

```

```

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65          70          75          80

```


Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95
 Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110
 Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125
 Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
 130 135 140
 Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
 145 150 155 160
 Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
 165 170 175
 Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
 180 185 190
 Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
 195 200 205
 Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
 210 215 220
 Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
 225 230 235 240
 Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
 245 250 255
 Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
 260 265 270
 Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
 275 280 285
 Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
 290 295 300
 Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
 305 310 315 320
 Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
 325 330

<210> 35
 <211> 330
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 35
 atgctggagg gagtgcaggt ggagactatt agccccggag atggcagaac attccccaaa 60
 agaggacaga cttgcgtcgt gcattatact ggaatgctgg aagacggcaa gaaggtggac 120
 agcagccggg accgaaacaa gcccttcaag ttcattgctgg ggaagcagga agtgatccgg 180
 ggctgggagg aaggagtcgc acagatgtca gtgggacaga gggccaaact gactattagc 240
 ccagactacg cttatggagc aaccggccac cccgggatca ttccccctca tgctacactg 300
 gtcttcgatg tggagctgct gaagctggaa 330

<210> 36
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 36
 Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
 1 5 10 15

 Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
 20 25 30

 Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
 35 40 45

 Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
 50 55 60

 Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
 65 70 75 80

 Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
 85 90 95

 His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105 110

<210> 37
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 37

agcggaggag gatccgga

18

<210> 38
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 38
Ser Gly Gly Gly Ser Gly
1 5

<210> 39
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 39
gtggaggggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
tacatcctgt ctatggagcc ttgcgccac tgtctgatca ttaacaatgt gaacttctgc 120
agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
aggtttctta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggtc 300
gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttgtg 660
agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
gtgaagggga tctacaaaca gatgccagga tgcttccagt ttctgagaaa gaaactgttc 840
tttaagacct ccgcatctag ggcc 864

<210> 40
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 40
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270

Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 41
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 41
ccgcgg

6

<210> 42
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 42
Pro Arg
1

<210> 43
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 43
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 44
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 44
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180

cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggcct tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgctgggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gaggggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 45
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 45
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 46
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 46
gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggctc 300
gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
actgacggct gtccagtcag cgtggagaag atcgtgaaca ttttcaacgg cacctcttgc 420
ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540

gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttgtg 660
agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
cagtggggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
gtgaagggga tctacaaaca gatgccagga tgcttcaact ttctgagaaa gaaactgttc 840
ttaaagacct ccgcatctag ggcc 864

<210> 47
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 47
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
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180	185	190
Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp		
195	200	205
Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp		
210	215	220
Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu		
225	230	235
Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala		
245	250	255
Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe		
260	265	270
Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala		
275	280	285

<210> 48
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 48	
gtcgacggat ttggtgatgt cgggtgctctt gaggctttga ggggaaatgc agatttggt	60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc	120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgctggcgt	180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg	240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg	300
gtcatttctt ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc	360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc	420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa	480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc	540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata	600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggtttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgttttcg	780
gtgaaagga tttataaaca gatgcctggt tgctttaatt tcctccggaa aaaacttttc	840
tttaaaacat cagctagcag agcc	864

<210> 49
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 49
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ala Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 50
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 50
gtcgacggat ttggtgatgt cggtgctctt gaggacttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 51
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 51
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Asp Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 52
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

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<400> 52
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggt      60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc      120
cgtgagtccg ggctccgcac ccgcactggc gccaacatcg actgtgagaa gttgcggcgt      180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg      240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg      300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc      360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc      420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa      480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc      540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggacgccata      600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt      660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag      720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg      780
gtgaaagggg ttataaaca gatgcctggt tgctttaatt tcctccggaa aaaacttttc      840
tttaaaacat cagctagcag agcc                                         864
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<210> 53
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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<400> 53
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1          5          10          15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
          20          25          30

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

Thr Gly Ala Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50          55          60
```

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 54

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 54

gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct

60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctccg cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
 gaccatgggt ttgagggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagga tttataaaca gatgcctggg tgctttaatt tcctccgga aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 55

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 55

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ala
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 56
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 56
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctccg acctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcagaag attgtgaaca tcttcaatgg gaccagctgc 420

cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagga tttataaaca gatgcctggg tgctttaatt tcctccgaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 57

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 57

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Asp
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro

165

170

175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 58

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 58

gtcgcaggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggtc 60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120

cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggtcgt 180

cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240

gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300

gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360

acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420

cccagcctgg gagggaagcc caagctcttt ttcattccagg ccgcgggtgg ggagcagaaa 480

gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540

gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600

tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660

tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720

cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780

gtgaaagggg tttataaaca gatgcctgggt tgctttaatt tcctccggaa aaaacttttc 840

tttaaaacat cagctagcag agcc

864

<210> 59

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 59

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Ala Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 60
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

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<400> 60
gtcgcaggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc      60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc      120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt      180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg      240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg      300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc      360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc      420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa      480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc      540
gagccagatg gcaccccggt ccaggaaggt ttgaggacct tcgaccagct ggacgccata      600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttggt      660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag      720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg      780
gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccgaa aaaacttttc      840
tttaaaacat cagctagcag agcc                                     864
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<210> 61
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 61
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Gly Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 62
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 62
gtcgcacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaactttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcatttctt ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgagggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccgccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catcttttag 720
cagtgggctc actctgaaga cctgcagtcc ctctgtctta gggtcgctaa tgctgttttcg 780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 63
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 63
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Ala Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 64

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

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<400> 64
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct      60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc      120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt      180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg      240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg      300
gtcatttctt ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc      360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc      420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa      480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc      540
gagccagatg cctgcccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata      600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggtttttgtt      660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag      720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg      780
gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc      840
tttaaaacat cagctagcag agcc                                           864

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<210> 65
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        polypeptide"

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<400> 65
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1      5      10      15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20     25     30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50     55     60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65     70     75     80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85     90     95

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Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Cys Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 66
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 66
gtcgcacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300

gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg cctccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 67

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 67

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys

145		150		155		160									
Asp	His	Gly	Phe	Glu ₁₆₅	Val	Ala	Ser	Thr	Ser ₁₇₀	Pro	Glu	Asp	Glu	Ser ₁₇₅	Pro
Gly	Ser	Asn	Pro ₁₈₀	Glu	Pro	Asp	Ala	Ser ₁₈₅	Pro	Phe	Gln	Glu	Gly ₁₉₀	Leu	Arg
Thr	Phe	Asp ₁₉₅	Gln	Leu	Asp	Ala	Ile ₂₀₀	Ser	Ser	Leu	Pro	Thr ₂₀₅	Pro	Ser	Asp
Ile	Phe ₂₁₀	Val	Ser	Tyr	Ser	Thr ₂₁₅	Phe	Pro	Gly	Phe	Val ₂₂₀	Ser	Trp	Arg	Asp
Pro ₂₂₅	Lys	Ser	Gly	Ser	Trp ₂₃₀	Tyr	Val	Glu	Thr	Leu ₂₃₅	Asp	Asp	Ile	Phe	Glu ₂₄₀
Gln	Trp	Ala	His	Ser ₂₄₅	Glu	Asp	Leu	Gln	Ser ₂₅₀	Leu	Leu	Leu	Arg	Val ₂₅₅	Ala
Asn	Ala	Val	Ser ₂₆₀	Val	Lys	Gly	Ile	Tyr ₂₆₅	Lys	Gln	Met	Pro	Gly ₂₇₀	Cys	Phe
Asn	Phe	Leu ₂₇₅	Arg	Lys	Lys	Leu	Phe ₂₈₀	Phe	Lys	Thr	Ser	Ala ₂₈₅	Ser	Arg	Ala

<210> 68
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 68	
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggt	60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc	120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt	180
cgcttctcct cgctgcattt catggtggag gtgaaggcg acctgactgc caagaaaatg	240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg	300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc	360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc	420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa	480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc	540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacca aggaccagct ggacgccata	600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720

cagtgggctc actctgaaga cctgcagtcc ctcttgctta gggtcgctaa tgctgtttcg 780
 gtgaaagga tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 69
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 69
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Lys Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 70
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 70
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcaagcagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 71
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 71

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Lys Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 72
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 72
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgaaga attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcaggcagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccgaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 73
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 73
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

Ile Ile Asn₃₅ Asn Val Asn Phe Cys₄₀ Arg Glu Ser Gly Leu₄₅ Arg Thr Arg
 Thr Gly₅₀ Ser Asn Ile Asp Cys₅₅ Glu Lys Leu Arg Arg₆₀ Arg Phe Ser Ser
 Leu₆₅ His Phe Met Val Glu₇₀ Val Lys Gly Asp Leu₇₅ Thr Ala Lys Lys Met₈₀
 Val Leu Ala Leu₈₅ Glu Leu Ala Arg Gln₉₀ Asp His Gly Ala Leu₉₅ Asp
 Cys Cys Val₁₀₀ Val Val Ile Leu Ser His₁₀₅ Gly Cys Gln Ala Ser₁₁₀ His Leu
 Gln Phe Pro₁₁₅ Gly Ala Val Tyr Gly₁₂₀ Thr Asp Gly Cys Pro₁₂₅ Val Ser Val
 Glu Lys₁₃₀ Ile Val Asn Ile Phe₁₃₅ Asn Gly Thr Ser Cys₁₄₀ Pro Ser Leu Gly
 Gly₁₄₅ Lys Pro Lys Leu Phe₁₅₀ Phe Ile Gln Ala Cys₁₅₅ Gly Gly Glu Gln Lys₁₆₀
 Asp His Gly Phe Glu₁₆₅ Val Ala Ser Thr Ser₁₇₀ Pro Glu Asp Glu Ser₁₇₅ Pro
 Gly Ser Asn Pro₁₈₀ Glu Pro Asp Ala Thr₁₈₅ Pro Phe Gln Glu Gly₁₉₀ Leu Arg
 Thr Phe Arg₁₉₅ Gln Leu Asp Ala Ile₂₀₀ Ser Ser Leu Pro Thr₂₀₅ Pro Ser Asp
 Ile Phe₂₁₀ Val Ser Tyr Ser Thr₂₁₅ Phe Pro Gly Phe Val₂₂₀ Ser Trp Arg Asp
 Pro₂₂₅ Lys Ser Gly Ser Trp₂₃₀ Tyr Val Glu Thr Leu₂₃₅ Asp Asp Ile Phe Glu₂₄₀
 Gln Trp Ala His Ser₂₄₅ Glu Asp Leu Gln Ser₂₅₀ Leu Leu Leu Arg Val₂₅₅ Ala
 Asn Ala Val Ser₂₆₀ Val Lys Gly Ile Tyr₂₆₅ Lys Gln Met Pro Gly₂₇₀ Cys Phe
 Asn Phe Leu₂₇₅ Arg Lys Lys Leu Phe₂₈₀ Phe Lys Thr Ser Ala₂₈₅ Ser Arg Ala

<210> 74
 <211> 864
 <212> DNA
 <213> Artificial sequence


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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        polynucleotide"

<400> 74
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggt      60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc      120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt      180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg      240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtggtg      300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc      360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc      420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa      480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc      540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcggccagct ggacgccata      600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt      660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag      720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg      780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc      840
tttaaaacat cagctagcag agcc                                         864

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<210> 75
<211> 288
<212> PRT
<213> Artificial Sequence

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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
        polypeptide"

<400> 75
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1      5      10      15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
      20      25      30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
      50      55      60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65      70      75      80

```

Val Leu Ala Leu₈₅ Glu Leu Ala Arg Gln₉₀ Asp His Gly Ala Leu₉₅ Asp
 Cys Cys Val₁₀₀ Val₁₀₀ Val Ile Leu Ser His₁₀₅ Gly Cys Gln Ala Ser₁₁₀ His Leu
 Gln Phe Pro₁₁₅ Gly Ala Val Tyr Gly₁₂₀ Thr Asp Gly Cys Pro₁₂₅ Val Ser Val
 Glu Lys₁₃₀ Ile Val Asn Ile Phe₁₃₅ Asn Gly Thr Ser Cys₁₄₀ Pro Ser Leu Gly
 Gly Lys₁₄₅ Pro Lys Leu Phe₁₅₀ Phe Ile Gln Ala Cys₁₅₅ Gly Gly Glu Gln Lys₁₆₀
 Asp His Gly Phe Glu₁₆₅ Val Ala Ser Thr Ser₁₇₀ Pro Glu Asp Glu Ser₁₇₅ Pro
 Gly Ser Asn Pro₁₈₀ Glu Pro Asp Ala Thr₁₈₅ Pro Phe Gln Glu Gly₁₉₀ Leu Arg
 Thr Phe Gly₁₉₅ Gln Leu Asp Ala Ile₂₀₀ Ser Ser Leu Pro Thr₂₀₅ Pro Ser Asp
 Ile Phe Val Ser Tyr Ser Thr₂₁₅ Phe Pro Gly Phe Val₂₂₀ Ser Trp Arg Asp
 Pro Lys Ser Gly Ser Trp₂₃₀ Tyr Val Glu Thr Leu₂₃₅ Asp Asp Ile Phe Glu₂₄₀
 Gln Trp Ala His Ser₂₄₅ Glu Asp Leu Gln Ser₂₅₀ Leu Leu Leu Arg Val₂₅₅ Ala
 Asn Ala Val Ser₂₆₀ Val Lys Gly Ile Tyr₂₆₅ Lys Gln Met Pro Gly₂₇₀ Cys Phe
 Asn Phe Leu₂₇₅ Arg Lys Lys Leu Phe₂₈₀ Phe Lys Thr Ser Ala₂₈₅ Ser Arg Ala

<210> 76

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 76

gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120

cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180

cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgacaagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccgaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 77
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 77
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

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

130

135

140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Lys Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 78

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 78

gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120

cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180

cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240

gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300

gtcattctct ctacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360

acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420

cccagcctgg gaggaagcc caagctcttt ttcattcagg cctgtggtgg ggagcagaaa 480

gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540

gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgacaggct ggacgccata 600

tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctctgtctta gggtcgctaa tgctgtttcg	780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc	840
tttaaaacat cagctagcag agcc	864

<210> 79
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 79
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Arg Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 80
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 80
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagaa ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccgga aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 81

<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 81
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Lys Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 82
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 82
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagga ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 83
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 83
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Glu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 84
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 84
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccaggg cgacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagga tttataaaca gatgcctggg tgctttaatt tcctccgga aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 85
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 85
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Gly Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 86

<211> 864

<212> DNA

<213> Artificial sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 86

gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggt

60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc	120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt	180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg	240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtggtg	300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc	360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc	420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa	480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc	540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata	600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctctgtctta gggtcgctaa tgctgtttcg	780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc	840
tttaaaacat cagctagcag agcc	864

<210> 87

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 87

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

Ala	Asp	Leu	Ala	Tyr	Ile	Leu	Ser	Met	Glu	Pro	Cys	Gly	His	Cys	Leu
			20					25					30		

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

Thr	Gly	Ser	Asn	Ile	Asp	Cys	Glu	Lys	Leu	Arg	Arg	Arg	Phe	Ser	Ser
	50					55					60				

Leu	His	Phe	Met	Val	Glu	Val	Lys	Gly	Asp	Leu	Thr	Ala	Lys	Lys	Met
65					70					75					80

Val	Leu	Ala	Leu	Leu	Glu	Leu	Ala	Arg	Gln	Asp	His	Gly	Ala	Leu	Asp
			85						90					95	

Cys	Cys	Val	Val	Val	Ile	Leu	Ser	His	Gly	Cys	Gln	Ala	Ser	His	Leu
			100					105					110		

Gln	Phe	Pro	Gly	Ala	Val	Tyr	Gly	Thr	Asp	Gly	Cys	Pro	Val	Ser	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

115

120

125

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 88

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 88

gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggt 60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120

cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180

cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240

gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtggtg 300

gtcattctct ctacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360

acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420

cccagcctgg gaggaagcc caagctcttt ttcattcagg cctgtggtgg ggagcagaaa 480

gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctcctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccgga aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 89
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 89
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Glu Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 90

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 90

gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc	60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc	120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgctggcg	180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg	240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg	300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc	360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc	420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa	480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc	540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggccgccata	600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggctgctaa tgctgtttcg	780
gtgaaaggga tttataaaca gatgcctggt tgctttaatt tcctccggaa aaaacttttc	840

tttaaaacat cagctagcag agcc

864

<210> 91

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 91

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asn Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 92
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 92
gtcgcaggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcatttctt ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catcttttag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagggg tttataaaca gatgcctggt tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 93
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 93

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Val Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 94
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 94
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagga tttataaaca gatgcctggt tgctttaatt tcctccgaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 95
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 95
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Gly Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 96

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 96
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggt ctctggactg ctgcgtgggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 97
<211> 288
<212> PRT
<213> Artificial Sequence
<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 97
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15
Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30
Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
35 40 45
Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60
Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80
Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
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100	105	110
Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val	115	120
Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly	130	140
Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys	150	160
Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro	165	170
Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg	180	190
Thr Phe Asp Gln Leu Ser Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp	195	200
Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp	210	220
Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu	225	235
Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala	245	250
Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe	260	270
Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala	275	285

<210> 98

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 98

gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120

cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180

cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240

gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300

gtcatttctt ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360

acagatggat gccctgtgtc ggtcgagaag attgtgaaca ttttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacaagata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagga tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 99

<211> 288

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 99

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Lys Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 100
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 100
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720

cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga ttataaaca gatgcctggg tgctataatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 101
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 101
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Tyr
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 102
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 102
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggtcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcatttctt ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagga tttataaaca gatgcctggg tgctggaatt tcctccgaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 103
<211> 288
<212> PRT
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 103

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

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

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 104
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 104
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagggg tttataaaca gatgcctggg tgctttcagt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 105
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 105
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 106
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 106
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 agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
 aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
 gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggtc 300
 gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
 actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
 ccaagtctgg gcggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
 gatcacggct tcgaagtggc tagcacctcc cccaggagcg aatcacctgg aagcaaccct 540
 gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
 tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttgtg 660
 agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
 cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
 gtgaagggga tctacaaaca gatgccagga tgcttccagt ttctgagaaa gaaactgttc 840
 tttaagacct ccgcatctag ggcc 864

<210> 107
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 107
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
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85

90

95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 108

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 108

gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60

tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120

cgtagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180

cgcttctcct cgctgcattt catggtggag gtgaaggcg acctgactgc caagaaaatg 240

gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgaaga attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgagggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagggg tttataaaca gatgcctggg tgctttaatc tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 109
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 109
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Leu Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 110
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 110
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggtc 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaaggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattcagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600

tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctcttgctta gggtcgctaa tgctgtttcg	780
gtgaaagga tttataaaca gatgcctggt tgctttaatt ccctccggaa aaaacttttc	840
tttaaaacat cagctagcag agcc	864

<210> 111
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 111
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Thr Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 112
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 112
gtggacgggt ttggagatgt gggagccctg gaagccctgc ggggcaatgc cgatctggct 60
tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
aggttctcta gtctgcactt tatggtcgag gtgaaaggcg atctgaccgc taagaaaatg 240
gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggctc 300
gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggattttgtg 660
agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
gtgaagggga tctacaaaca gatgccagga tgcttccagt ttctgagaaa gaaactgttc 840
ttaaagacct ccgcatctag ggcc 864

<210> 113
<211> 288

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 113
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ala Leu Arg Gly Asn
1 5 10 15
Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30
Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
35 40 45
Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60
Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80
Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95
Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110
Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
115 120 125
Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140
Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160
Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175
Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190
Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205
Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220
Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 114
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 114
gtcgacggat ttggtgatgt cgggtgctctt gaggctttga ggggaaatgc agatttggt 60
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cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccgga aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 115
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 115
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ala Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 116

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

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 116
 gtcgacggat ttggtgatgt cgggtgctctt gaggacttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 117
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 117
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Asp Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met

65		70		75		80									
Val	Leu	Ala	Leu	Leu	Glu	Leu	Ala	Arg	Gln	Asp	His	Gly	Ala	Leu	Asp
			85						90					95	
Cys	Cys	Val	Val	Val	Ile	Leu	Ser	His	Gly	Cys	Gln	Ala	Ser	His	Leu
		100						105					110		
Gln	Phe	Pro	Gly	Ala	Val	Tyr	Gly	Thr	Asp	Gly	Cys	Pro	Val	Ser	Val
		115					120					125			
Glu	Lys	Ile	Val	Asn	Ile	Phe	Asn	Gly	Thr	Ser	Cys	Pro	Ser	Leu	Gly
	130					135					140				
Gly	Lys	Pro	Lys	Leu	Phe	Phe	Ile	Gln	Ala	Cys	Gly	Gly	Glu	Gln	Lys
145					150					155					160
Asp	His	Gly	Phe	Glu	Val	Ala	Ser	Thr	Ser	Pro	Glu	Asp	Glu	Ser	Pro
				165					170					175	
Gly	Ser	Asn	Pro	Glu	Pro	Asp	Ala	Thr	Pro	Phe	Gln	Glu	Gly	Leu	Arg
			180					185					190		
Thr	Phe	Asp	Gln	Leu	Ala	Ala	Ile	Ser	Ser	Leu	Pro	Thr	Pro	Ser	Asp
		195					200					205			
Ile	Phe	Val	Ser	Tyr	Ser	Thr	Phe	Pro	Gly	Phe	Val	Ser	Trp	Arg	Asp
	210					215					220				
Pro	Lys	Ser	Gly	Ser	Trp	Tyr	Val	Glu	Thr	Leu	Asp	Asp	Ile	Phe	Glu
225					230					235					240
Gln	Trp	Ala	His	Ser	Glu	Asp	Leu	Gln	Ser	Leu	Leu	Leu	Arg	Val	Ala
				245					250					255	
Asn	Ala	Val	Ser	Val	Lys	Gly	Ile	Tyr	Lys	Gln	Met	Pro	Gly	Cys	Phe
			260					265					270		
Asn	Phe	Leu	Arg	Lys	Lys	Leu	Phe	Phe	Lys	Thr	Ser	Ala	Ser	Arg	Ala
		275					280					285			

<210> 118
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 118	
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct	60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc	120

cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctccg cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgctggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccgaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 119
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 119
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ala
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 120
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 120
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctccg acctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480

gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 121
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 121
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Asp
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 122

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 122

gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60

tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120

agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180

aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240

gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggtc 300

gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360

actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420

ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480

gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540

gagccagatg caagcccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600

tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttgtg 660

agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720

cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780

gtgaagggga tctacaaaca gatgccagga tgcttccagt ttctgagaaa gaaactgttc 840

tttaagacct ccgcatctag ggcc 864

<210> 123
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 123
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Ser Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 124
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 124
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggg tgcttcagtt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 125
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 125

Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 Page 103

<210> 126
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 126
 gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccgtgcccac ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttggt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 127
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 127
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 Page 104

50

55

60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Val Pro Ile Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 128

<211> 864

<212> DNA

<213> Artificial sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 128
gtcgcacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggt ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaagggg tttataaaca gatgccgata tccgcacaga cactccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 129
<211> 288
<212> PRT
<213> Artificial Sequence
<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 129
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15
Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30
Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
35 40 45
Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60
Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80
Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95
Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

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

Gln Thr Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 130

<211> 330

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 130

atgctggagg gagtgcaggt ggagactatt agccccggag atggcagaac attccccaaa 60

agaggacaga cttgcgtcgt gcattatact ggaatgctgg aagacggcaa gaaggtggac 120

agcagccggg accgaaacaa gcccttcaag ttcattgctgg ggaagcagga agtgatccgg 180

ggctgggagg aaggagtcgc acagatgtca gtgggacaga gggccaaact gactattagc 240

ccagactacg cttatggagc aaccggccac cccgggatca ttccccctca tgctacactg 300

gtcttcgatg tggagctgct gaagctggaa 330

<210> 131
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 131
 Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
 1 5 10 15

Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
 20 25 30

Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
 35 40 45

Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
 50 55 60

Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
 65 70 75 80

Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
 85 90 95

His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105 110

<210> 132
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 132
 agcggaggag gatccgga

18

<210> 133
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 133
 Ser Gly Gly Ser Gly
 1 5

<210> 134
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 134
 gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
 tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
 agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
 aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
 gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggtc 300
 gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
 actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
 ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
 gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
 gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
 tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttgtg 660
 agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
 cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
 gtgaagggga tctacaaaca gatgccagga tgcttcaact ttctgagaaa gaaactgttc 840
 tttaagacct ccgcatctag ggcc 864

<210> 135
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 135
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 136

<211> 6

<212> DNA

<213> Artificial sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 136

ccgcgg

<210> 137
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 137
Pro Arg
1

<210> 138
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 138
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 139
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 139
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 140
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 140
ccatgg

6

<210> 141
<211> 2
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 141
Pro Trp
1

<210> 142
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 142
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 143
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 143
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15
Val Gln Cys Ser Arg
20

<210> 144
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 144
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatTTAA attggtatca gcagaaacca 120
gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
gggactaagt tggaaataac a 321

<210> 145

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 145
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 146
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 146
ggcggaggaa gcggaggtgg gggc

24

<210> 147
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 147
Gly Gly Gly ser Gly Gly Gly Gly
1 5

<210> 148
<211> 360

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 148
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcattaccc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgcca acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 149
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 149
Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln 1 5 10 15
Ser Leu Ser Val Thr Cys Thr Val Ser Gly Val Ser Leu Pro Asp Tyr 20 25 30
Gly Val Ser Trp Ile Arg Gln Pro Pro Arg Lys Gly Leu Glu Trp Leu 35 40 45
Gly Val Ile Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys 50 55 60
Ser Arg Leu Thr Ile Ile Lys Asp Asn Ser Lys Ser Gln Val Phe Leu 65 70 75 80
Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Ala 85 90 95
Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln 100 105 110
Gly Thr Ser Val Thr Val Ser Ser 115 120

<210> 150
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 150
 ggatcc

6

<210> 151
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 151
 Gly Ser
 1

<210> 152
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 152
 gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 153
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 153
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 154
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 154
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga

60

cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct

120

tgcgac

126

<210> 155
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 155
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 156
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 156
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 157
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 157
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 158
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 158
 gtcgac

6

<210> 159
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 159
 Val Asp
 1

<210> 160
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 160	
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc	60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc	120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat	180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc	240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc	300
tacgacgccc ttcacatgca ggccctgccc cctcgc	336

<210> 161
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 161
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 Page 117

35

40

45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 162

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 162

atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60

agg 63

<210> 163

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 163

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 164

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 164

gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60

ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120

ggacaatccc caaaattgct gatttattct gcctctagta ggtacactgg ggtaccttct 180
 cggtttacgg gctctgggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
 gaagacctcg ctgtttattt ttgccagcag cacttccgaa ccccttttac ttttggtca 300
 ggcactaagt tggaatcaa ggctttg 327

<210> 165
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 165
 Asp Ile Gln Leu Thr Gln Ser His Lys Phe Leu Ser Thr Ser Val Gly
 1 5 10 15

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

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

Tyr Ser Ala Ser Ser Arg Tyr Thr Gly Val Pro Ser Arg Phe Thr Gly
 50 55 60

Ser Gly Ser Gly Pro Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Ala
 65 70 75 80

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

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

<210> 166
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 166
 ggcggaggaa gcggaggtgg gggc 24

<210> 167
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 167
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 168
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 168
gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc cggcgaaac agtgaagata 60
tcttgtaaag cctccggta cctttttacg aactatggaa tgaactgggt caaacaagcc 120
cctggacagg gattgaagt gatgggatg atcaatacat caacaggcga gtctaccttc 180
gcagatgatt tcaaaggtcg ctttgacttc tcttgagaga ccagtgcaaa taccgcctac 240
cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 169
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 169
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15

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

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

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

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

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

Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 170
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 170
ggatcc

6

<210> 171
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 171
Gly Ser
1

<210> 172
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 172
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 173
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 173
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 174
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 174
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccctt gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 175
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 175
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 176
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 176
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 177
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 177
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

Cys Lys Cys Pro Arg
35

<210> 178
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 178
ctcgag

6

<210> 179
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 179
Leu Glu
1

<210> 180
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 180
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctgaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca ggccctgccc cctcgc 336

<210> 181
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 181
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 182
 <211> 204
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 182
 ttctgggtac tgggtgtagt cggtggcgta cttgcttggt attctcttct tgttaccgta 60
 gccttcatta tattctgggt cccatcaaag cgctcaagac tcctccattc cgattatatg 120
 aacatgacac ctgcgcgacc tggctctaca cgcaaacatt atcaacccta cgcaccccc 180
 cgagacttcg ctgcttatcg atcc 204

<210> 183
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 183
 Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu
 1 5 10 15
 Leu Val Thr Val Ala Phe Ile Ile Phe Trp Val Arg Ser Lys Arg Ser
 20 25 30
 Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro Arg Arg Pro Gly
 Page 124

35

40

45

Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro Arg Asp Phe Ala
 50 55 60

Ala Tyr Arg Ser
 65

<210> 184
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 184
 gttgccgcca tcctgggcct gggcctggtg ctggggctgc tgggcccct ggccatcctg 60
 ctggccctgt acctgctccg ggaccagagg ctgcccccg atgccacaa gccccctggg 120
 ggaggcagtt tccggacccc catccaagag gagcaggccg acgcccactc caccctggcc 180
 aagatc 186

<210> 185
 <211> 63
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 185
 Val Ala Ala Ile Leu Gly Leu Gly Leu Val Leu Gly Leu Leu Gly Pro
 1 5 10 15

Leu Ala Ile Leu Leu Ala Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu
 20 25 30

Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro
 35 40 45

Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr Leu Ala Lys Ile
 50 55 60

<210> 186
 <211> 135
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 186

agtgtagtta aaagaggaag aaaaaagttg ctgtatatat ttaaacaacc atttatgaga 60
ccagtgcaaa ccaccaaga agaagacgga tgttcatgca gattcccaga agaagaagaa 120
ggaggatgtg aattg 135

<210> 187
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 187
Ser Val Val Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
1 5 10 15

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
20 25 30

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu
35 40 45

<210> 188
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 188
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Glu Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 189
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 189
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 190
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 190
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 191
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 191
 gacatccagc tgacacaaag tcccagtagc ctgtcagcca gtgtcggcga taggggtgaca 60
 attacatgct ccgcaagtag tagcgctcaga ttcatacact ggtaccagca gaagcctggg 120
 aaggccccaag agaggcttat ctacgatacc agtaaactcg cctctggagt tcctagccgg 180
 ttttctggat ctggcagcgg aactagctac accctcaca tctccagtct gcaaccagag 240
 gactttgcaa cctactactg ccagcaatgg agcagctccc ctttcacctt tgggcagggt 300
 actaagggtg agatcaag 318

<210> 192
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 192
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
 20 25 30

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

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

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

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

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

<210> 193
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 193
ggcggaggaa gcggaggtgg gggc

24

<210> 194
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 194
Gly Gly Gly ser Gly Gly Gly
1 5

<210> 195
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 195
gaggtgcagc ttgtagagag cgggggaggc ctcgtacagc cagggggctc tctgcgcctg 60
tcattgtcag cttcaggatt caatataaag gactattaca ttactgggt acggcaagct 120
cccggtaagg gcctggaatg gatcggttg atcgaccctg aaaacggaga tacagaattt 180
gtgccaagt tccagggaag ggctaccatg tctgccgata cttctaagaa tacagcatac 240
cttcagatga attctctccg cgccgaggac acagccgtgt attattgtaa aacgggaggg 300
ttctgggggtc aggtaccct tgtgactgtg tcttcc 336

<210> 196
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 196
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
Page 129

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

<210> 197
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 197
 ggggatccccg cc

12

<210> 198
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 198
 Gly Asp Pro Ala
 1

<210> 199
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 199
 gagcccaaat ctcctgacaa aactcacaca tgccca

36

<210> 200
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 200
Glu Pro Lys Ser Pro Asp Lys Thr His Thr Cys Pro
1 5 10

<210> 201
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 201
ccgtgcccag cacctgaact cctgggggga ccgtcagtct tcctcttccc cccaaaaccc 60
aaagacaccc tcatgatctc ccggaccct gaggtcacat gcgtggtggt ggacgtgagc 120
cacgaagacc ctgaggtcaa gttcaactgg tatgtggacg gcgtggaggt gcataatgca 180
aagacaaagc cgcgggagga gcagtacaac agcacgtacc gtgtgggtcag cgtcctcacc 240
gtcctgcacc aggactggct gaatggcaag gagtacaagt gcaaggtctc caacaaagcc 300
ctcccagccc ccatcgagaa aaccatctcc aaagccaaa 339

<210> 202
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 202
Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
1 5 10 15

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
20 25 30

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
35 40 45

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

Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
65 70 75 80

Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
85 90 95

Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
100 105 110

Lys

<210> 203
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 203
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggatga gctgaccaag 60
aaccaggtca gcctgacctg cctggtcaaa ggcttctatc ccagcgacat cgccgtggag 120
tgaggagagca atgggcaacc ggagaacaac tacaagacca cgcctcccgt gctggactcc 180
gacggctcct tcttcctcta cagcaagctc accgtggaca agagcaggtg gcagcagggg 240
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc 300
ctctccctgt ctccgggtaa a 321

<210> 204
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 204
Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
1 5 10 15

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

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
35 40 45

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

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
65 70 75 80

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
85 90 95

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
100 105

<210> 205
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 205
aaagatccca aa

12

<210> 206
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 206
Lys Asp Pro Lys
1

<210> 207
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 207
ttttgggtgc tgggtggtgt tgggtggagtc ctggcttgct atagcttgct agtaacagtg
gcctttatta tt

60

72

<210> 208
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 208
Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu
1 5 10 15

Leu Val Thr Val Ala Phe Ile Ile

<210> 209
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 209
 gccggc

6

<210> 210
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 210
 Ala Gly
 1

<210> 211
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 211
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca ggccctgccc cctcgc 336

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

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 212
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 213
<211> 513
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 213
gccgctgggg gccagggcg cggatcagct gctcccgtat cttctacttc ttctttgccg 60
ctggctgctc tgaacatgcg cgtgagaaga cgcctctccc tgttccttaa cgttcgacaca 120
caagtcgctg ccgattggac cgcccttgcc gaagaaatgg actttgaata cctggaaatt 180
agacaacttg aaacacaggc cgacccact ggcagactcc tggacgcatg gcagggaaga 240
cctggtgcaa gcgttggacg gctcctggat ctcttgacaa aactgggacg cgacgacgta 300
ctgcttgaac tcggacctag cattgaagaa gactgccaaa aatatatcct gaaacaacaa 360
caagaagaag ccgaaaaacc tctccaagtc gcagcagtgg actcatcagt accccgaaca 420
gctgagcttg ctgggattac tacactcgac gaccactcg gacatatgcc tgaaagattc 480
gacgctttca tttgctattg cccctctgac ata 513

<210> 214
<211> 171
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 214
Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser Thr
1 5 10 15

Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg Leu
20 25 30

Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr Ala
35 40 45

Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu Glu
50 55 60

Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly Arg
65 70 75 80

Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu Gly
85 90 95

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

Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro Leu
115 120 125

Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu Ala
130 135 140

Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg Phe
145 150 155 160

Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 215
<211> 189
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 215
aagaaagttg caaagaaacc cacaataaaa gccccacacc ctaaacagga accccaagaa 60
atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120
catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180
agacaatag 189

<210> 216
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 216

Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 217

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 217

atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60

agg 63

<210> 218

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 218

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 219

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 219

gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60

atcagttgca gggcaagtca ggacattagt aaatatattaa attggtatca gcagaaacca 120

gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 220
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 220
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 85 90 95

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

<210> 221
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 221
 ggcggaggaa gcggaggtgg gggc 24

<210> 222
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 222
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 223
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 223
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcatatccc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 224
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 224
Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
Page 139

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 225
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 225
ggggatcccg cc

12

<210> 226
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 226
Gly Asp Pro Ala
1

<210> 227
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 227
gagcccaaat ctctgacaa aactcacaca tgccca

36

<210> 228
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 228
Glu Pro Lys Ser Pro Asp Lys Thr His Thr Cys Pro
1 5 10

<210> 229
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 229
 ccgtgcccag cacctgaact cctgggggga ccgtcagtct tcctcttccc cccaaaaccc 60
 aaagacaccc tcatgatctc ccggaccctt gaggtcacat gcgtggtggt ggacgtgagc 120
 cacgaagacc ctgagggtcaa gttcaactgg tatgtggacg gcgtggaggt gcataatgca 180
 aagacaaagc cgcgggagga gcagtacaac agcacgtacc gtgtgggtcag cgtcctcacc 240
 gtcctgcacc aggactggct gaatggcaag gagtacaagt gcaagggtctc caacaaagcc 300
 ctcccagccc ccatcgagaa aaccatctcc aaagccaaa 339

<210> 230
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 230
 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 1 5 10 15

 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 20 25 30

 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
 35 40 45

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

 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 65 70 75 80

 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 85 90 95

 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 100 105 110

Lys

<210> 231
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"
 <400> 231
 gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggatga gctgaccaag 60
 aaccagggtca gcctgacctg cctggtcaaa ggcttctatc ccagcgacat cgccgtggag 120
 tgggagagca atgggcaacc ggagaacaac tacaagacca cgcctcccgt gctggactcc 180
 gacggctcct tcttcctcta cagcaagctc accgtggaca agagcagggtg gcagcagggg 240
 aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc 300
 ctctccctgt ctccgggtaa a 321

<210> 232
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"
 <400> 232
 Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp
 1 5 10 15
 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
 20 25 30
 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
 35 40 45
 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
 50 55 60
 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
 65 70 75 80
 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 85 90 95
 Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 100 105

<210> 233
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 233
 aaagatccca aa

<210> 234
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 234
Lys Asp Pro Lys
1

<210> 235
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 235
ttttgggtgc tgggtggtggt tgggtggagtc ctggcttgct atagcttgct agtaacagtg 60
gcctttatta tt 72

<210> 236
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 236
Phe Trp Val Leu Val Val Val Gly Gly Val Leu Ala Cys Tyr Ser Leu
1 5 10 15

Leu Val Thr Val Ala Phe Ile Ile
20

<210> 237
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 237
ctcgag 6

<210> 238
<211> 2
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 238

Leu Glu

1

<210> 239

<211> 516

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 239

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atggccgctg ggggccagg cgccgatca gctgctccg tatcttctac ttcttctttg      60
ccgctggctg ctctgaacat gcgcgtgaga agacgcctct ccctgttcct taacgttcgc    120
acacaagtcg ctgccgattg gaccgccctt gccgaagaaa tggactttga atacctggaa    180
attagacaac ttgaaacaca ggccgacccc actggcagac tcctggacgc atggcagggg    240
agacctggtg caagcgttgg acggctcctg gatctcctga caaaactggg acgcgacgac    300
gtactgcttg aactcggacc tagcattgaa gaagactgcc aaaaatatat cctgaaacaa    360
caacaagaag aagccgaaaa acctctccaa gtcgcagcag tggactcatc agtaccgccg    420
acagctgagc ttgctgggat tactacactc gacgaccac tcggacatat gcctgaaaga    480
ttcgacgctt tcatttgcta ttgcccctct gacata                               516
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<210> 240

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 240

Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 241
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 241
aagaaagttg caaagaaacc cacaaataaa gccccacacc ctaaacagga accccaagaa 60
atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120
catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180
agacaa 186

<210> 242
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 242
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 243
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 243
gcggccgcag tcgag

15

<210> 244
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 244
Ala Ala Ala Val Glu
1 5

<210> 245
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 245
agagtgaagt tcagcaggag cgagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctgaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca ggccctgccc cctcgctaa 339

<210> 246
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 246
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 247
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 247
 atggggagta gcaagagcaa gcctaaggac cccagccagc gc

42

<210> 248
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 248
 Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
 1 5 10

<210> 249
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 249

ctcgac

6

<210> 250
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 250
Leu Asp
1

<210> 251
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 251
atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcaggga 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 252
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 252
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 253
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 253
gtcgag

6

<210> 254
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 254
Val Glu
1

<210> 255
<211> 186
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 255
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 256
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 256
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15
 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30
 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45
 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 257
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 257
 ccgcgg 6

<210> 258
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 258
 Pro Arg
 1

<210> 259
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 259
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 260
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 260
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 261
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 261
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaaggggtgt ccagtgtagc 60
agg 63

<210> 262
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 262
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 263
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 263
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
aggttcagt gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
gggactaagt tggaataaac a 321

<210> 264
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 264
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 265
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 265
 ggcggaggaa gcggaggtgg gggc

24

<210> 266
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 266
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 267
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 267
 gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
 acatgcactg tctcaggggt ctcatatccc gactatggtg taagctggat tcgccagcct 120
 ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180
 tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
 aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
 tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 268
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 268
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 269
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 269
ggatcc

6

<210> 270
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 270
Gly Ser
1

<210> 271
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 271
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 272
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 272
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 273
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 273
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 274
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 274
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 275
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 275
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 276
 <211> 37

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 276
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 277
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 277
gtcgac

6

<210> 278
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 278
Val Asp
1

<210> 279
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 279
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240

cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca ggcctgccc cctcgc 336

<210> 280
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 280
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 281
 <211> 888
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 281
 atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gagctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420

acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatccagt ttgtgcagga gatgatccgg 540
 caactggaac agacaaacta tcgactgaag ttgtgtgtgt ctgaccgcga tgtcctgcct 600
 ggcacctgtg tctggtctat tgctagttag ctcacgaaa agaggtgccg ccggatggtg 660
 gtggttgtct ctgatgatta cctgcagagc aaggaatgtg acttccagac caaatttgca 720
 ctcagcctct ctccaggtgc ccatcagaag cgactgatcc ccatcaagta caaggcaatg 780
 aagaaagagt tccccagcat cctgaggttc atcactgtct gcgactacac caaccctgc 840
 accaaatctt ggttctggac tcgccttgcc aaggccttgt ccctgccc 888

<210> 282

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 282

Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Glu Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile Gln Phe Val Gln

165 170 175
 Glu Met Ile Arg Gln Leu Glu Gln Thr Asn Tyr Arg Leu Lys Leu Cys
 180 185 190
 Val Ser Asp Arg Asp Val Leu Pro Gly Thr Cys Val Trp Ser Ile Ala
 195 200 205
 Ser Glu Leu Ile Glu Lys Arg Cys Arg Arg Met Val Val Val Val Ser
 210 215 220
 Asp Asp Tyr Leu Gln Ser Lys Glu Cys Asp Phe Gln Thr Lys Phe Ala
 225 230 235 240
 Leu Ser Leu Ser Pro Gly Ala His Gln Lys Arg Leu Ile Pro Ile Lys
 245 250 255
 Tyr Lys Ala Met Lys Lys Glu Phe Pro Ser Ile Leu Arg Phe Ile Thr
 260 265 270
 Val Cys Asp Tyr Thr Asn Pro Cys Thr Lys Ser Trp Phe Trp Thr Arg
 275 280 285
 Leu Ala Lys Ala Leu Ser Leu Pro
 290 295

<210> 283
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 283
 Met Gly Ser Asn Lys Ser Lys Pro Lys Asp Ala Ser Gln Arg Arg Arg
 1 5 10 15

<210> 284
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Any amino acid

<400> 284
 Met Gly Cys Xaa Cys
 1 5

<210> 285
 <211> 6
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 285

Gly Ser Gly Gly Gly Ser
1 5

<210> 286

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 286

Ser Gly Gly Gly Ser
1 5

<210> 287

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 287

Arg Ala Lys Phe Lys Gln Leu Leu
1 5

<210> 288

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 288

Asn Leu Val Pro Met Val Ala Thr Val
1 5

<210> 289

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 289

Ser Gly Gly Gly Ser Gly

1

5

<210> 290
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 290
 Thr Asp Pro Thr Arg Arg Phe
 1 5

<210> 291
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 primer"

<400> 291
 tccgccctga gcaaagac 18

<210> 292
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 primer "

<400> 292
 acgaactcca gcaggaccat 20

<210> 293
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 probe"

<400> 293
 acgagaagcg cgatc 15

<210> 294
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 primer "

<400> 294
 ctggaatctg gcggtggat 19

<210> 295
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
primer "

<400> 295
caaactctca agagcaccga cat

23

<210> 296
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
probe"

<400> 296
cggagtcgac ggatt

15

<210> 297
<211> 5
<212> PRT
<213> Homo sapiens

<400> 297
Gly Cys Phe Asn Phe
1 5

<210> 298
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 298
Cys Ile Val Ser Met
1 5

<210> 299
<211> 4
<212> PRT
<213> Homo sapiens

<400> 299
Ala Thr Pro Phe
1

<210> 300
<211> 288
<212> PRT
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 300

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

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 301
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 301
Asp Ala Ile Ser Ser
1 5

<210> 302
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 302
Ala Ala Ala Ala Ala
1 5

<210> 303
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 303
Ile Ser Ala Gln Thr
1 5

<210> 304
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 304
Ala Val Pro Ile
1

<210> 305

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 305
Tyr Cys Ser Thr Leu
1 5

<210> 306
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 306
Cys Ile Val Ser Met
1 5

<210> 307
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 307
Gln Pro Thr Phe Thr
1 5

<210> 308
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 308
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 309
<211> 1002
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 309

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atgccaccac ctgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct      60
gaggaaccac tggctgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa      120
ggcacttctg atgggccaaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct      180
tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc      240
tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga      300
ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa      360
ctgtttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc      420
tctgaaggcc caagttcacc ctcagggaag ctgatgagcc caaaactgta cgtgtggggc      480
aaagatcggc ccgagatctg ggagggagaa cctccatgcc tgccacctag agacagcctg      540
aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt      600
ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcacctaag      660
gggcaaaaaa gtctgtgtc actggaactg aaggacgac ggctgccag agacatgtgg      720
gtcatggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat      780
tgccaccggg gcaatctgac aatgtcctt catctggaga tcttgcaag gcccgctgtg      840
tggcactggc tgctgcgaac cggaggatgg aaggctcagt ctgtgacact ggcatactgt      900
atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg      960
agaaagagaa agagaatgac tgaccaaca agaaggtttt ga                        1002

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<210> 310

<211> 333

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 310

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Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1           5           10           15

```

```

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
          20           25           30

```

```

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
          35           40           45

```

```

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
50           55           60

```

```

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65           70           75           80

```

```

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
          85           90           95

```

Cys Gln Pro Gly₁₀₀ Pro Pro Ser Glu Lys₁₀₅ Ala Trp Gln Pro Gly₁₁₀ Trp Thr
 Val Asn Val₁₁₅ Glu Gly Ser Gly Glu₁₂₀ Leu Phe Arg Trp Asn₁₂₅ Val Ser Asp
 Leu Gly₁₃₀ Gly Leu Gly Cys Gly₁₃₅ Leu Lys Asn Arg Ser₁₄₀ Ser Glu Gly Pro
 Ser₁₄₅ Ser Pro Ser Gly Lys₁₅₀ Leu Met Ser Pro Lys₁₅₅ Leu Tyr Val Trp Ala₁₆₀
 Lys Asp Arg Pro Glu₁₆₅ Ile Trp Glu Gly Glu₁₇₀ Pro Pro Cys Leu Pro₁₇₅ Pro
 Arg Asp Ser Leu₁₈₀ Asn Gln Ser Leu Ser₁₈₅ Gln Asp Leu Thr Met₁₉₀ Ala Pro
 Gly Ser Thr₁₉₅ Leu Trp Leu Ser Cys₂₀₀ Gly Val Pro Pro Asp₂₀₅ Ser Val Ser
 Arg Gly₂₁₀ Pro Leu Ser Trp Thr₂₁₅ His Val His Pro Lys₂₂₀ Gly Pro Lys Ser
 Leu₂₂₅ Leu Ser Leu Glu Leu₂₃₀ Lys Asp Asp Arg Pro₂₃₅ Ala Arg Asp Met Trp₂₄₀
 Val Met Glu Thr Gly₂₄₅ Leu Leu Leu Pro Arg₂₅₀ Ala Thr Ala Gln Asp₂₅₅ Ala
 Gly Lys Tyr Tyr₂₆₀ Cys His Arg Gly Asn₂₆₅ Leu Thr Met Ser Phe₂₇₀ His Leu
 Glu Ile Thr₂₇₅ Ala Arg Pro Val Leu₂₈₀ Trp His Trp Leu Leu₂₈₅ Arg Thr Gly
 Gly Trp Lys Val Ser Ala Val₂₉₅ Thr Leu Ala Tyr Leu₃₀₀ Ile Phe Cys Leu
 Cys₃₀₅ Ser Leu Val Gly Ile₃₁₀ Leu His Leu Gln Arg₃₁₅ Ala Leu Val Leu Arg₃₂₀
 Arg Lys Arg Lys Arg₃₂₅ Met Thr Asp Pro Thr₃₃₀ Arg Arg Phe

<210> 311

<211> 329

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

<400> 311
 atgctcgagg gagtgcaggt ggagactatc tccccaggag acggg'gcac cttccccaag 60
 cgcggccaga cctgcgtggt gcactacacc gggatgcttg aagatggaaa gaaagttgat 120
 tcctcccgga acagaaacaa gccctttaag tttatgctag gcaagcagga ggtgatccga 180
 ggctgggaag aagggggtgc ccagatgagt gtgggtcaga gagccaaact gactatatct 240
 ccagattatg cctatggtgc cactgggcac ccaggcatca tcccaccaca tgccactctc 300
 gtcttcgatg tggagcttct aaaactgga 329

<210> 312
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 312
 tctggcggtg gatccgga 18

<210> 313
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 313
 gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc 54

<210> 314
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 314
 Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
 1 5 10 15

Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
 20 25 30

Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
 35 40 45

Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
 50 55 60

Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
65 70 75 80

Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
85 90 95

His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105 110

<210> 315
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 315
Ser Gly Gly Gly Ser Gly
1 5

<210> 316
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 316
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 317
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 317
ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccaa aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300

gtggagctgc tgaagctgga a 321

<210> 318
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 318
agcggaggag gatccgga 18

<210> 319
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 319
ccgcgggaag gccgaggag cctgctgaca tgtggcgatg tggaggaaaa cccaggacca 60

<210> 320
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 320
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 321
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 321
atgctggagg gagtgcaggt ggagactatt agccccggag atggcagaac attccccaaa 60
agaggacaga cttgcgtcgt gcattatact ggaatgctgg aagacggcaa gaaggtggac 120
agcagccggg accgaaacaa gcccttcaag ttcattgctgg ggaagcagga agtgatccgg 180
ggctgggagg aaggagtcgc acagatgtca gtgggacaga gggccaaact gactattagc 240

ccagactacg cttatggagc aaccggccac cccgggatca ttccccctca tgctacactg 300
gtcttcgatg tggagctgct gaagctggaa 330

<210> 322
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 322
Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
1 5 10 15

Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
20 25 30

Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
35 40 45

Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
50 55 60

Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
65 70 75 80

Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
85 90 95

His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105 110

<210> 323
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 323
agcggaggag gatccgga 18

<210> 324
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 324

Ser Gly Gly Gly Ser Gly
1 5

<210> 325
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 325
gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggctc 300
gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttggtg 660
agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
gtgaagggga tctacaaaca gatgccagga tgcttcaact ttctgagaaa gaaactgttc 840
tttaagacct ccgcatctag ggcc 864

<210> 326
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 326
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 327

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 327
ccgcgg

6

<210> 328
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 328
Pro Arg
1

<210> 329
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 329
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 330
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 330
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 331
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 331
ccatgg

6

<210> 332
<211> 2

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 332
Pro Trp
1

<210> 333
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 333
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 334
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 334
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 335
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 335
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300

gggactaagt tggaataac a

321

<210> 336
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 336
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 337
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 337
ggcggaggaa gcggaggtgg gggc

24

<210> 338
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 338
Gly Gly Gly ser Gly Gly Gly Gly
1 5

<210> 339
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 339
 gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
 acatgcactg tctcaggggt ctcattaccc gactatggtg taagctggat tcgccagcct 120
 ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180
 tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
 aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaac acattattac 300
 tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 340
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 340
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln 1 5 10 15
 Ser Leu Ser Val Thr Cys Thr Val Ser Gly Val Ser Leu Pro Asp Tyr 20 25 30
 Gly Val Ser Trp Ile Arg Gln Pro Pro Arg Lys Gly Leu Glu Trp Leu 35 40 45
 Gly Val Ile Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys 50 55 60
 Ser Arg Leu Thr Ile Ile Lys Asp Asn Ser Lys Ser Gln Val Phe Leu 65 70 75 80
 Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Ala 85 90 95
 Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln 100 105 110
 Gly Thr Ser Val Thr Val Ser Ser 115 120

<210> 341
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 341
ggatcc

6

<210> 342
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 342
Gly Ser
1

<210> 343
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 343
gaacttccta cttaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 344
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 344
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 345
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 345

cccgcccca gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 ccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 346
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 346
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 347
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 347
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 348
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 348
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

Cys Lys Cys Pro Arg
 35

<210> 349
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 349
gtcgac

6

<210> 350
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 350
Val Asp
1

<210> 351
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 351
atggcgcgtg ggggcccagg cgccgatca gctgctccg tatcttctac ttcttctttg 60
ccgctggctg ctctgaacat gcgcgtgaga agacgcctct ccctgttcct taacgttcgc 120
acacaagtcg ctgccgattg gaccgccctt gccgaagaaa tggactttga atacctggaa 180
attagacaac ttgaaacaca ggccgacccc actggcagac tcctggacgc atggcagggg 240
agacctggtg caagcgttgg acggctcctg gatctcctga caaaactggg acgcgacgac 300
gtactgcttg aactcggacc tagcattgaa gaagactgcc aaaaatatat cctgaaacaa 360
caacaagaag aagccgaaaa acctctcaa gtcgcagcag tggactcatc agtaccgccg 420
acagctgagc ttgctgggat tactacactc gacgaccac tcggacatat gcctgaaaga 480
ttcgacgctt tcatttgcta ttgcccctct gacata 516

<210> 352
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 352
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15
Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30
Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45
Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60
Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80
Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95
Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110
Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125
Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140
Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160
Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 353
<211> 186
<212> DNA
<213> Artificial Sequence
<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 353
aagaaagttg caaagaaacc cacaataaaa gccccacacc ctaaacagga accccaagaa 60
atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120
catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180
agacaa 186

<210> 354
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 354
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 355
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 355
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca ggccctgccc cctcgc 336

<210> 356
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 356
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 357
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 357
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 358
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 358
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 359
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 359
gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60
ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120
ggacaatccc caaaattgct gatttattct gcctctagta ggtacactgg ggtaccttct 180

cggtttacgg gctctgggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
gaagacctcg ctgtttatatt ttgccagcag cacttccgaa ccccttttac ttttggtca 300
ggcactaagt tggaaatcaa ggctttg 327

<210> 360
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 360
Asp Ile Gln Leu Thr Gln Ser His Lys Phe Leu Ser Thr Ser Val Gly
1 5 10 15

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

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

Tyr Ser Ala Ser Ser Arg Tyr Thr Gly Val Pro Ser Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Pro Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Ala
65 70 75 80

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

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

<210> 361
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 361
ggcggaggaa gcggaggtgg gggc 24

<210> 362
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 362
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 363
 <211> 357
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 363
 gaagtccaat tgcaacagtc aggcccccga ttgaaaaagc ccggcgaaac agtgaagata 60
 tcttgtaaag cctccggtta cccttttacg aactatggaa tgaactgggt caaacaagcc 120
 cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
 gcagatgatt tcaaaggctg ctttgacttc tctactggaga ccagtgcaaa taccgcctac 240
 cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
 gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 364
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 364
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
 1 5 10 15
 Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Pro Phe Thr Asn Tyr
 20 25 30
 Gly Met Asn Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Lys Trp Met
 35 40 45
 Gly Trp Ile Asn Thr Ser Thr Gly Glu Ser Thr Phe Ala Asp Asp Phe
 50 55 60
 Lys Gly Arg Phe Asp Phe Ser Leu Glu Thr Ser Ala Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Ile Asn Asn Leu Lys Ser Glu Asp Met Ala Thr Tyr Phe Cys
 85 90 95
 Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
 100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 365
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 365
ggatcc

6

<210> 366
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 366
Gly Ser
1

<210> 367
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 367
gaattccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 368
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 368
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 369
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 369
cccccccaac gacccccac acctgcccgc accattgctt ctcaaccct gagtttgaga 60
ccccaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 370
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 370
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 371
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 371
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 372
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 372
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 373
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 373
ctcgag

6

<210> 374
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 374
Leu Glu
1

<210> 375
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 375
atggccgctg ggggcccagg cgccggatca gctgctcccg tatcttctac ttcttctttg 60
ccgctggctg ctctgaacat gcgcgtgaga agacgcctct ccctgttcct taacgttcgc 120
acacaagtcg ctgccgattg gaccgccctt gccgaagaaa tggactttga atacctggaa 180
attagacaac ttgaaacaca ggccgacccc actggcagac tcctggacgc atggcagggg 240
agacctgggtg caagcgttgg acggctcctg gatctcctga caaaactggg acgcgacgac 300
gtactgcttg aactcggacc tagcattgaa gaagactgcc aaaaatatat cctgaaacaa 360
caacaagaag aagccgaaaa acctctccaa gtcgcagcag tggactcatc agtaccgccg 420
acagctgagc ttgctgggat tactacactc gacgaccac tcggacatat gcctgaaaga 480
ttcgacgctt tcatttgcta ttgcccctct gacata 516

<210> 376
<211> 172
<212> PRT
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 376
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 377
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 377
 aagaaagttg caaagaaacc cacaataaaa gcccacacc ctaaacagga accccaagaa 60
 atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120
 catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180
 agacaa 186

<210> 378
 <211> 62
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

 <400> 378
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 379
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

 <400> 379
 gcggccgcag tcgag

15

<210> 380
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

 <400> 380
 Ala Ala Ala Val Glu
 1 5

<210> 381
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

 <400> 381
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc

60

tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc	120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat	180
gaactgcaga aagataagat ggcgagggcc tacagtgaga ttgggatgaa aggcgagcgc	240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc	300
tacgacgccc ttcacatgca ggcctgccc cctcgc	336

<210> 382
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 382
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 383
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 383
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15
 Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45
 Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60
 Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80
 Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95
 Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110
 Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu Lys
 115 120 125
 Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys
 130 135 140
 Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160
 Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175
 Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190
 Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205
 Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220
 Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240
 Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255
 Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270
 Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
 275 280

<210> 384

<211> 846

<212> DNA

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 384
 ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
 ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
 tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
 tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
 gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
 ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
 ggatgccctg tgtcgggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
 ctgggaggga agccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
 gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
 gatgccaccc cgttccagga aggtttgagg accttcgacc agctggccgc catatctagt 600
 ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
 agggaccca agatgggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
 acatca 846

<210> 385
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 385
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
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85

90

95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
275 280

<210> 386

<211> 846

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 386

ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180

tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240

gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcg gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctggggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccagacca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcttgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtcctctctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt cagttcctcc ggaaaaaact tttctttaaa 840
acatca 846

<210> 387
<211> 282
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 387
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Gln Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
275 280

<210> 388
<211> 846
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 388
ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggccgc catatctagt 600

ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg 660
 agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtcctctctg cttagggtcg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt cagttcctcc ggaaaaaact tttctttaaa 840
 acatca 846

<210> 389
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 389
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190

Asp Gln Leu Ala Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Gln Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
275 280

<210> 390
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 390
gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
aggttctcta gtctgcactt tatggtcgag gtgaaaggcg atctgaccgc taagaaaatg 240
gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggctc 300
gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggattttgtg 660
agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatcttttag 720
cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
gtgaagggga tctacaaaca gatgccagga tgcttccagt ttctgagaaa gaaactgttc 840
ttaaagacct ccgcatctag ggcc 864

<210> 391
<211> 288

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 391
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15
Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30
Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
35 40 45
Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60
Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80
Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95
Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110
Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
115 120 125
Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140
Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160
Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175
Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190
Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205
Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220
Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Gln Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 392
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 392
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggccgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccgga aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 393
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 393
atgggagatgc aggtggagac tattagcccc ggagatggca gaacattccc caaaagagga 60
cagacttgcg tcgtgcatta tactggaatg ctggaagacg gcaagaaggt ggacagcagc 120

cgggaccgaa acaagccctt caagttcatg ctggggaagc aggaagtgat ccggggctgg 180
 gaggaaggag tcgcacagat gtcagtggga cagagggcca aactgactat tagcccagac 240
 tacgcttatg gagcaaccgg ccaccccgga atcattcccc ctcatgctac actggtcttc 300
 gatgtggagc tgctgaagct ggaa 324

<210> 394
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 394
 Met Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe
 1 5 10 15

Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
 20 25 30

Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
 35 40 45

Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
 50 55 60

Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
 65 70 75 80

Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
 85 90 95

Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 395
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 395
 agcggaggag gatccgga 18

<210> 396
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 396
Ser Gly Gly Gly Ser Gly
1 5

<210> 397
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 397
gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
aggttctcta gtctgcactt tatggtcgag gtgaaaggcg atctgaccgc taagaaaatg 240
gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgctgggtc 300
gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
tcaagcctgc ccacacctt tgacattttc gtctcttaca gtactttccc tggattttgtg 660
agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
gtgaagggga tctacaaaca gatgccagga tgcttcaact ttctgagaaa gaaactgttc 840
tttaagacct ccgcatctag ggcc 864

<210> 398
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 398
ccgcgg 6

<210> 399
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 399
Pro Arg
1

<210> 400
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 400
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 401
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 401
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 402
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 402
ccatgg

6

<210> 403
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 403
Pro Trp

1

<210> 404
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 404
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 405
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 405
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 406
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 406
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
gggactaagt tggaaataac a 321

<210> 407
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 407

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

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 408

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 408

ggcggaggaa gcggaggtgg gggc

24

<210> 409

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 409

Gly Gly Gly ser Gly Gly Gly Gly
1 5

<210> 410

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

<400> 410
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcattaccc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctgggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 411
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 411
Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val AlaPro Ser Gln
1 5 10 15
Ser Leu Ser Val Thr Cys Thr Val Ser Gly Val Ser Leu Pro Asp Tyr
20 25 30
Gly Val Ser Trp Ile Arg Gln Pro Pro Arg Lys Gly Leu Glu Trp Leu
35 40 45
Gly Val Ile Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys
50 55 60
Ser Arg Leu Thr Ile Ile Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
65 70 75 80
Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95
Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110
Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 412
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 412
ggatcc 6

<210> 413
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 413
Gly Ser
1

<210> 414
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 414
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 415
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 415
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 416
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 416
cccgcccaaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 417
<211> 42
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 417

Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 418

<211> 111

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 418

atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60

actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 419

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 419

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 420

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 420
gtcgac

6

<210> 421
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 421
Val Asp
1

<210> 422
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 422
atggccgctg ggggcccagg cgccggatca gctgctcccg tatctttctac ttctttctttg 60
ccgctggctg ctctgaacat gcgcgtgaga agacgcctct ccctgttcct taacgttcgc 120
acacaagtcg ctgccgattg gaccgccctt gccgaagaaa tggactttga atacctggaa 180
attagacaac ttgaaacaca ggccgacccc actggcagac tcctggacgc atggcagggg 240
agacctggtg caagcgttgg acggctcctg gatctcctga caaaactggg acgcgacgac 300
gtactgcttg aactcggacc tagcattgaa gaagactgcc aaaaatatat cctgaaacaa 360
caacaagaag aagccgaaaa acctctccaa gtcgcagcag tggactcatc agtaccgccg 420
acagctgagc ttgctgggat tactacactc gacgaccac tcggacatat gcctgaaaga 480
ttcgacgctt tcatttgcta ttgcccctct gacata 516

<210> 423
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 423
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
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35

40

45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 424

<211> 186

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 424

aagaaagttg caaagaaacc cacaataaaa gccccacacc ctaaacagga accccaagaa 60

atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120

catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180

agacaa 186

<210> 425

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 425

Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 426
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 426
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 427
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 427
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
Page 211

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 428
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 428
 acg 3

<210> 429
 <211> 1
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 429
 Thr
 1

<210> 430
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 430
 tggcacgaag gcctggaaga ggcctcaaga ctttactttg gtgaacgcaa cgtaaaggc 60
 atgttcgagg tgctggaacc cttgcatgca atgatggagc gaggtcctca gacactcaaa 120
 gagacatctt ttaaccaggc gtatggacgg gacctcatgg aggctcagga atggtgccgc 180
 aagtacatga aaagtgggaa tgtgaaggat ctgctgcaag catgggatct gtattaccac 240
 gtgtttagac ggatcagcaa a 261

<210> 431
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 431

Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 432
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 432
cgtacg

6

<210> 433
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 433
Arg Thr
1

<210> 434
<211> 264
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 434
tggcatgaag gggtgaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60

atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120

gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180

aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctgggacct ttattaccat 240
 gtgttcaggc ggatcagtaa gtaa 264

<210> 435
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 435
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80

Val Phe Arg Arg Ile Ser Lys
 85

<210> 436
 <211> 324
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 436
 atgggagtg aggtggagac tattagcccc ggagatggca gaacattccc caaaagagga 60
 cagacttgcg tcgtgcatta tactggaatg ctggaagacg gcaagaaggt ggacagcagc 120
 cgggaccgaa acaagccctt caagttcatg ctggggaagc aggaagtgat ccggggctgg 180
 gaggaaggag tcgcacagat gtcagtggga cagagggcca aactgactat tagcccagac 240
 tacgcttatg gagcaaccgg ccaccccgga atcattcccc ctcatgctac actggtcttc 300
 gatgtggagc tgctgaagct ggaa 324

<210> 437
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 437
 Met Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe
 1 5 10 15

 Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
 20 25 30

 Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
 35 40 45

 Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
 50 55 60

 Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
 65 70 75 80

 Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile ProPro His Ala
 85 90 95

 Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 438
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 438
 agcggaggag gatccgga

18

<210> 439
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 439
 Ser Gly Gly Gly Ser Gly
 1 5

<210> 440
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 440
 gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
 tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
 agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
 aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
 gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggtc 300
 gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
 actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
 ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
 gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
 gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
 tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggatttgtg 660
 agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
 cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
 gtgaagggga tctacaaaca gatgccagga tgcttcaact ttctgagaaa gaaactgttc 840
 tttaagacct ccgcatctag ggcc 864

<210> 441
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 441
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
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85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 442
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 442
 ccgcgg

6

<210> 443
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 443
Pro Arg
1

<210> 444
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 444
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc

54

<210> 445
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 445
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 446
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 446
gcatgcgcca cc

12

<210> 447
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 447

Ala Cys Ala Thr

1

<210> 448
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 448
atggagtttg ggttgatcatg gttgtttctc gtcgctattc tcaaaggtgt acaatgctcc 60
cgc 63

<210> 449
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 449
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 450
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 450
gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc ccggcgaaac agtgaagata 60
tcttgtaaag cctccgggta cccttttacg aactatggaa tgaactgggt caaacaagcc 120
cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
gcagatgatt tcaaaggtcg ctttgacttc tctactggaga ccagtgcaaa taccgcctac 240
cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 451
<211> 119
<212> PRT
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"
 <400> 451
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
 1 5 10 15
 Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Pro Phe Thr Asn Tyr
 20 25 30
 Gly Met Asn Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Lys Trp Met
 35 40 45
 Gly Trp Ile Asn Thr Ser Thr Gly Glu Ser Thr Phe Ala Asp Asp Phe
 50 55 60
 Lys Gly Arg Phe Asp Phe Ser Leu Glu Thr Ser Ala Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Ile Asn Asn Leu Lys Ser Glu Asp Met Ala Thr Tyr Phe Cys
 85 90 95
 Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
 100 105 110
 Thr Thr Val Thr Val Ser Ser
 115

<210> 452
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 452
 ggcggtggag gctccggtgg aggcggctct ggaggaggag gttca

45

<210> 453
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 453
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 454
 <211> 327
 <212> DNA

<400> 456
atgcat 6

<210> 457
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 457
Met His
1

<210> 458
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 458
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 459
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 459
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 460
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 460
cccgcccaa gacccccac acctgcgccc accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 461
<211> 42

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 461
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 462
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 462
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 463
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 463
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 464
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 464
gtcgac

6

<210> 465
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 465
Val Asp
1

<210> 466
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 466
atggccgctg ggggccagg cgccgatca gctgctccg tatcttctac ttcttcttg 60
ccgctggctg ctctgaacat gcgcgtgaga agacgcctct ccctgttcct taacgttcgc 120
acacaagtcg ctgccgattg gaccgccctt gccgaagaaa tggactttga atacctggaa 180
attagacaac ttgaaacaca ggccgacccc actggcagac tcctggacgc atggcagggg 240
agacctggtg caagcgttgg acggctcctg gatctcctga caaaactggg acgcgacgac 300
gtactgcttg aactcggacc tagcattgaa gaagactgcc aaaaatatat cctgaaacaa 360
caacaagaag aagccgaaaa acctctcaa gtcgcagcag tggactcatc agtaccgccg 420
acagctgagc ttgctgggat tactacactc gacgaccac tcggacatat gcctgaaaga 480
ttcgacgctt tcatttgcta ttgcccctct gacata 516

<210> 467
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 467
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 468
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 468
aagaaagttg caaagaaacc cacaaataaa gccccacacc ctaaacagga accccaagaa 60
atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120
catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180
agacaa 186

<210> 469
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 469
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 470
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 470
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggagggggca agggggcacg tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 471
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 471
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 472
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 472
acg

3

<210> 473
<211> 1
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 473
Thr
1

<210> 474
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 474
tggcacgaag gcctggaaga ggcctcaaga ctttactttg gtgaacgcaa cgttaaaggc 60
atgttcgagg tgctggaacc cttgcatgca atgatggagc gaggtcctca gacactcaaa 120
gagacatctt ttaaccaggc gtatggacgg gacctcatgg aggctcagga atggtgccgc 180
aagtacatga aaagtgggaa tgtgaaggat ctgctgcaag catgggatct gtattaccac 240
gtgttttagac ggatcagcaa a 261

<210> 475
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 475
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15
 Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30
 Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45
 Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60
 Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80
 Val Phe Arg Arg Ile Ser Lys
 85

<210> 476
 <211> 6
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 476
 cgtacg

6

<210> 477
 <211> 2
 <212> PRT
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 477
 Arg Thr
 1

<210> 478
 <211> 264
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 478
 tggcatgaag ggttgaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
 atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120

gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctgggacct ttattaccat 240
gtgttcaggc ggatcagtaa gtaa 264

<210> 479
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 479
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 480
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 480
gccacc 6

<210> 481
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 481
atgggagtg aggtggagac tattagcccc ggagatggca gaacattccc caaaagagga 60

cagacttgcg tcgtgcatta tactggaatg ctggaagacg gcaagaaggt ggacagcagc 120
 cgggaccgaa acaagccctt caagttcatg ctggggaagc aggaagtgat ccggggctgg 180
 gaggaaggag tcgcacagat gtcagtggga cagagggcca aactgactat tagcccagac 240
 tacgcttatg gagcaaccgg ccaccccggg atcattcccc ctcatgctac actggtcttc 300
 gatgtggagc tgctgaagct ggaa 324

<210> 482
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 482
 Met Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe
 1 5 10 15

Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
 20 25 30

Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
 35 40 45

Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
 50 55 60

Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
 65 70 75 80

Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
 85 90 95

Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 483
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 483
 agcggaggag gatccgga 18

<210> 484
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 484
 Ser Gly Gly Gly Ser Gly
 1 5

<210> 485
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 485
 gtggacgggt ttggagatgt gggagccctg gaatccctgc ggggcaatgc cgatctggct 60
 tacatcctgt ctatggagcc ttgcggccac tgtctgatca ttaacaatgt gaacttctgc 120
 agagagagcg ggctgcggac cagaacagga tccaatattg actgtgaaaa gctgcggaga 180
 aggttctcta gtctgcactt tatggctcag gtgaaaggcg atctgaccgc taagaaaatg 240
 gtgctggccc tgctggaact ggctcggcag gaccatgggg cactggattg ctgcgtggctc 300
 gtgatcctga gtcacggctg ccaggcttca catctgcagt tccctggggc agtctatgga 360
 actgacggct gtccagtcag cgtggagaag atcgtgaaca tcttcaacgg cacctcttgc 420
 ccaagtctgg gcgggaagcc caaactgttc tttattcagg cctgtggagg cgagcagaaa 480
 gatcacggct tcgaagtggc tagcacctcc cccgaggacg aatcacctgg aagcaaccct 540
 gagccagatg caaccccctt ccaggaaggc ctgaggacat ttgaccagct ggatgccatc 600
 tcaagcctgc ccacaccttc tgacattttc gtctcttaca gtactttccc tggattttgtg 660
 agctggcgcg atccaaagtc aggcagctgg tacgtggaga cactggacga tatctttgag 720
 cagtgggccc attctgaaga cctgcagagt ctgctgctgc gagtggccaa tgctgtctct 780
 gtgaagggga tctacaaaca gatgccagga tgcttcaact ttctgagaaa gaaactgttc 840
 ttaagacct ccgcatctag ggcc 864

<210> 486
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 486
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 487

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 487

ccgcgg

6

<210> 488

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 488

Pro Arg

1

<210> 489

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 489

gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc

54

<210> 490

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 490

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 491

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 491
gcatgcgcca cc 12

<210> 492
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 492
Ala Cys Ala Thr
1

<210> 493
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 493
atggagtttg ggttgatcatg gttgtttctc gtcgctattc tcaaaggtgt acaatgctcc 60
cgc 63

<210> 494
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 494
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 495
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 495
gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc ccggcgaaac agtgaagata 60
tcttgtaaag cctccggtta cccttttacg aactatggaa tgaactgggt caaacaagcc 120

cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
gcagatgatt tcaaaggtcg ctttgacttc tctactggaga ccagtgcaaa taccgcctac 240
cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 496
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 496
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15

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

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

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

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

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

Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 497
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 497
ggcggtagg gctccggtgg aggcggctct ggaggaggag gttca 45

<210> 498
<211> 15
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 498

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 499

<211> 327

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 499

gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60
ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120
ggacaatccc caaaattgct gatttattct gcctctagta ggtacactgg ggtaccttct 180
cggtttacgg gctctgggctc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
gaagacctcg ctgtttatct ttgccagcag cacttccgaa ccccttttac ttttggtcga 300
ggcactaagt tggaaatcaa ggctttg 327

<210> 500

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 500

Asp Ile Gln Leu Thr Gln Ser His Lys Phe Leu Ser Thr Ser Val Gly
1 5 10 15

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

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

Tyr Ser Ala Ser Ser Arg Tyr Thr Gly Val Pro Ser Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Pro Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Ala
65 70 75 80

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

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

<210> 501
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 501
atgcat

6

<210> 502
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 502
Met His
1

<210> 503
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 503
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 504
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 504
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 505
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 505
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccctt gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 506
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 506
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 507
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 507
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 508
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 508
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

Cys Lys Cys Pro Arg
35

<210> 509
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 509
gtcgac

6

<210> 510
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 510
Val Asp
1

<210> 511
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 511
atggcgcgtg ggggccagg cgccgatca gctgctccg tatcttctac ttcttctttg 60
ccgctggctg ctctgaacat gcgcgtgaga agacgcctct ccctgttcct taacgttcgc 120
acacaagtcg ctgccgattg gaccgccctt gccgaagaaa tggactttga atacctggaa 180
attagacaac ttgaaacaca ggccgacccc actggcagac tcctggacgc atggcagggg 240
agacctggtg caagcgttgg acggctcctg gatctcctga caaaactggg acgcgacgac 300
gtactgcttg aactcggacc tagcattgaa gaagactgcc aaaaatatat cctgaaacaa 360
caacaagaag aagccgaaaa acctctcaa gtcgcagcag tggactcatc agtaccgccg 420
acagctgagc ttgctgggat tactacactc gacgaccac tcggacatat gcctgaaaga 480
ttcgacgctt tcatttgcta ttgcccctct gacata 516

<210> 512
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 512
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

 Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

 Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

 Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

 Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

 Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

 Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

 Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

 Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 513
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 513
 aagaaagttg caaagaaacc cacaataaaa gccccacacc ctaaacagga accccaagaa 60
 atcaatttcc cagatgatct ccctggatct aatactgccg ccccggtcca agaaaccctg 120
 catggttgcc agcctgtcac ccaagaggac ggaaaagaat cacggattag cgtacaagag 180
 agacaa 186

<210> 514
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 514
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 515
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 515
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgttga 339

<210> 516
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 516
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
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20

25

30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 517

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 517

atgctcgag

9

<210> 518

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 518

Met Leu Glu

1

<210> 519

<211> 320

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 519

ggagtgcagg tggagactat ctccccagga gacgggcgca ccttcccaa ggcgggccag 60

acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttctctccgg 120

gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180

gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatata tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga 320

<210> 520
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 520
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu
100 105

<210> 521
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 521
atctggcggg ggatccgga 19

<210> 522
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 522
Ser Gly Gly Gly Ser Gly
1 5

<210> 523
<211> 921
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 523
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaaggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga tttataaaca gatgcctggt tgctttaatt tcctccgaa aaaacttttc 840
tttaaaacat cagctagcag agccgagggc aggggaagtc ttctaactg cggggacgtg 900
gaggaaaatc ccgggccctg a 921

<210> 524
<211> 284
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 524
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser
 275 280

<210> 525

<211> 12

<212> DNA

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 525
gctagcagag cc

12

<210> 526
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 526
Ala Ser Arg Ala
1

<210> 527
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 527
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccctga

57

<210> 528
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 528
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 529
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 529
atgctcgag

9

<210> 530
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 530
 Met Leu Glu
 1

<210> 531
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 531
 tggcatgaag gggtggaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
 atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
 gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
 aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctgggacct ttattacat 240
 gtgttcaggc ggatcagtaa g 261

<210> 532
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 532
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 533
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 533
tcaggcgggtg gctcaggtgt cgag

24

<210> 534
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 534
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 535
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 535
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggtc 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600

tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctctctgctta gggtcgctaa tgctgtttcg	780
gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccggaa aaaacttttc	840
tttaaaacat cagctagcag agcc	864

<210> 536
 <211> 287
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 536
 Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala
 1 5 10 15

Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile
 20 25 30

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

Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu
 50 55 60

His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val
 65 70 75 80

Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys
 85 90 95

Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln
 100 105 110

Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu
 115 120 125

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

Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp
 145 150 155 160

His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly
 165 170 175

Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr
 180 185 190

Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile
195 200 205

Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro
210 215 220

Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln
225 230 235 240

Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn
245 250 255

Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn
260 265 270

Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 537
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 537
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccctga

57

<210> 538
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 538
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 539
<211> 270
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 539

atgctcgagt ggcataagg cctggaagag gcatctcgtt tgtactttgg ggaaaggaac 60
 gtgaaaggca tgtttgaggt gctggagccc ttgcacgcta tgatggaacg gggccccag 120
 actctgaagg aaacatcctt taatcaggcc tatggtcgag atttaatgga ggcccaagag 180
 tgggtgcagga agtacatgaa atcagggaat gtcaaggacc tcctccaagc ctggggacctc 240
 tattatcatg tgttccgacg aatctcaaag 270

<210> 540
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 540
 Met Leu Glu Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe
 1 5 10 15

Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His
 20 25 30

Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn
 35 40 45

Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys
 50 55 60

Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu
 65 70 75 80

Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
 85 90

<210> 541
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 541
 gtcgag 6

<210> 542
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 542
Val Asp
1

<210> 543
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 543
tggcatgaag gggtggaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctgggacct ttattacat 240
gtgttcaggc ggatcagtaa g 261

<210> 544
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 544
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 545
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 545
tcaggcgggtg gctcaggtgt cgag

24

<210> 546
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 546
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 547
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 547
tggcatgaag gcctggaaga ggcattctcgt ttgtactttg gggaaaggaa cgtgaaaggc 60
atgtttgagg tgctggagcc cttgcacgct atgatggaac ggggccccca gactctgaag 120
gaaacatcct ttaatcaggc ctatggtcga gatttaatgg aggcccaaga gtggtgcagg 180
aagtacatga aatcaggga tgtcaaggac ctctccaag cctgggacct ctattatcat 240
gtgttccgac gaatctcaaa g 261

<210> 548
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 548
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
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50

55

60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 549
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 549
gtcgac

6

<210> 550
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 550
Val Asp
1

<210> 551
<211> 285
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 551
tggcatgaag ggttggaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctgggacct ttattaccat 240
gtgttcaggc ggatcagtaa gtcaggcggt ggctcaggtg tcgac 285

<210> 552
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 552

Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 553

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 553

gtcgac

6

<210> 554

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 554

Val Glu

1

<210> 555

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 555

tatccgtacg acgtaccaga ctacgcactc gactaa

36

<210> 556
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 556
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Asp
1 5 10

<210> 557
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 557
atgggctgtg tgcaatgtaa ggataaagaa gcaacaaaac tgacggagga g

51

<210> 558
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 558
Met Gly Cys Val Gln Cys Lys Asp Lys Glu Ala Thr Lys Leu Thr Glu
1 5 10 15

Glu

<210> 559
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 559
ctcgag

6

<210> 560
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 560
 Leu Gly
 1

<210> 561
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 561
 tggcatgaag gcctggaaga ggcattctcgt ttgtactttg gggaaaggaa cgtgaaaggc 60
 atgtttgagg tgctggagcc cttgcacgct atgatggaac ggggccccca gactctgaag 120
 gaaacatcct ttaatcaggc ctatggtcga gatttaatgg aggcccaaga gtggtgcagg 180
 aagtacatga aatcaggga tgtcaaggac ctctccaag cctgggacct ctattatcat 240
 gtgttccgac gaatctcaaa g 261

<210> 562
 <211> 90
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 562
 Met Leu Glu Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe
 1 5 10 15

Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His
 20 25 30

Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn
 35 40 45

Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys
 50 55 60

Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu
 65 70 75 80

Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
 85 90

<210> 563
 <211> 6

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 563
gtcgag

6

<210> 564
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 564
Val Asp
1

<210> 565
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 565
tggcatgaag ggttggaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctgggacct ttattaccat 240
gtgttcaggc ggatcagtaa g 261

<210> 566
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 566
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
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35

40

45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80

Val Phe Arg Arg Ile Ser Lys
 85

<210> 567
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 567
 tcaggcgggtg gctcaggtg

19

<210> 568
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 568
 Ser Gly Gly Gly Ser Gly Val Asp
 1 5

<210> 569
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 569
 tatccgtacg acgtaccaga ctacgcactc gactaa

36

<210> 570
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 570

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Asp
 1 5 10

<210> 571
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 571
 atgctcgag

9

<210> 572
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 572
 Met Leu Glu
 1

<210> 573
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 573	
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa	60
acatgtgtcg tccattatac aggcattgtg gaggacggca aaaagttcga cagtagtaga	120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag	180
gagggcgtgg ctcaaagtgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac	240
gcatacggcg ctaccggaca tccccctaag attccccctc acgctacctt ggtgtttgac	300
gtcgaactgt tgaagctcga a	321

<210> 574
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 574
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
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acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaattcga ttcctctcgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccacctaag atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 578
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 578
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 579
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 579
tcaggcgggtg gctcaggtgt cgag 24

<210> 580
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 580
 Ser Gly Gly Gly Ser Gly Val Asp
 1 5

<210> 581
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 581
 ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtt gaggcaggca aaaagttcga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tccccctaag attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 582
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 582
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 583
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 583
gtcgac

6

<210> 584
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 584
Val Asp
1

<210> 585
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 585
ggagtgcagg tggagactat ctccccagga gacgggcgca ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaattcga ttcctctcgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccacctaag atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 586
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 586
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
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1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 587
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 587
 tcaggcgggtg gctcaggtgt cgag

24

<210> 588
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 588
 Ser Gly Gly Gly Ser Gly Val Asp
 1 5

<210> 589
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 589
 tatccgtacg acgtaccaga ctacgcactc gactaa

36

<210> 590
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 590
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Leu Asp
1 5 10

<210> 591
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 591
atgctcgagg gagtgcaggt ggagactatc tccccaggag acgggcgcac cttccccaag 60
cgcggccaga cctgcgtggt gcactacacc gggatgcttg aagatggaaa gaaagttgat 120
tcctcccggg acagaaacaa gccctttaag tttatgctag gcaagcagga ggtgatccga 180
ggctgggaag aaggggttgc ccagatgagt gtgggtcaga gagccaaact gactatatct 240
ccagattatg cctatggtgc cactgggcac ccaggcatca tcccaccaca tgccactctc 300
gtcttcgatg tggagcttct aaaactggaa 330

<210> 592
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 592
Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
1 5 10 15

Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
20 25 30

Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
35 40 45

Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
50 55 60

Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
65 70 75 80

Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
85 90 95

His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105 110

<210> 593
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 593
tctggcgggtg gatccgga

18

<210> 594
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 594
Ser Gly Gly Gly Ser Gly
1 5

<210> 595
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 595
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600

tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt	660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag	720
cagtgggctc actctgaaga cctgcagtcc ctctgtctta gggtcgctaa tgctgtttcg	780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc	840
tttaaaacat cagctagcag agcc	864

<210> 596
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 596
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 597
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 597
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc

54

<210> 598
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 598
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 599
<211> 1002
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

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<400> 599
atgccacctc ctgcctcct cttcttcctc ctcttcctca ccccatgga agtcaggccc      60
gaggaacctc tagtggtgaa ggtggaagag ggagataacg ctgtgctgca gtgcctcaag      120
gggacctcag atggcccccac tcagcagctg acctggtctc gggagtcccc gcttaaacc      180
ttcttaaaac tcagcctggg gctgccaggc ctgggaatcc acatgaggcc cctggccatc      240
tggcttttca tcttcaacgt ctctcaacag atgggggggct tctacctgtg ccagccgggg      300
ccccctctg agaaggcctg gcagcctggc tggacagtca atgtggaggg cagcggggag      360
ctgttccggt ggaatgtttc ggacctaggt ggcctgggct gtggcctgaa gaacaggctc      420
tcagagggcc ccagctcccc ttccgggaag ctcatgagcc ccaagctgta tgtgtgggcc      480
aaagaccgcc ctgagatctg ggaggagag cctccgtgtc tcccaccgag ggacagcctg      540
aaccagagcc tcagccagga cctcaccatg gccctggct ccacactctg gctgtcctgt      600
ggggtacccc ctgactctgt gtccaggggc cccctctcct ggacctatgt gcacccaag      660
gggcctaagt cattgctgag cctagagctg aaggacgac gcccgccag agatatgtgg      720
gtaatggaga cgggtctgtt gttgccccg gccacagctc aagacgctgg aaagtattat      780
tgtcaccgtg gcaacctgac catgtcattc cacctggaga tctgtctcg gccagtacta      840
tggcactggc tgctgaggac tgggtggctg aaggtctcag ctgtgacttt ggcttatctg      900
atcttctgcc tgtgttcct tgtgggcatt cttcatctc aaagagccct ggtcctgagg      960
aggaaaagaa agcgaatgac tgacccacc aggagattct aa                        1002

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<210> 600
<211> 333
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

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<400> 600
Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1          5          10          15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
      20          25          30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
      35          40          45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
      50          55          60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65          70          75          80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
      85          90          95

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Cys Gln Pro Gly₁₀₀ Pro Pro Ser Glu Lys₁₀₅ Ala Trp Gln Pro Gly₁₁₀ Trp Thr
 Val Asn Val₁₁₅ Glu Gly Ser Gly Glu₁₂₀ Leu Phe Arg Trp Asn₁₂₅ Val Ser Asp
 Leu Gly₁₃₀ Gly Leu Gly Cys Gly₁₃₅ Leu Lys Asn Arg Ser₁₄₀ Ser Glu Gly Pro
 Ser₁₄₅ Ser Pro Ser Gly Lys₁₅₀ Leu Met Ser Pro Lys₁₅₅ Leu Tyr Val Trp Ala₁₆₀
 Lys Asp Arg Pro Gly₁₆₅ Ile Trp Glu Gly Glu₁₇₀ Pro Pro Cys Leu Pro₁₇₅ Pro
 Arg Asp Ser Leu₁₈₀ Asn Gln Ser Leu Ser₁₈₅ Gln Asp Leu Thr Met₁₉₀ Ala Pro
 Gly Ser Thr₁₉₅ Leu Trp Leu Ser Cys₂₀₀ Gly Val Pro Pro Asp₂₀₅ Ser Val Ser
 Arg Gly₂₁₀ Pro Leu Ser Trp Thr₂₁₅ His Val His Pro Lys₂₂₀ Gly Pro Lys Ser
 Leu₂₂₅ Leu Ser Leu Glu Leu₂₃₀ Lys Asp Asp Arg Pro₂₃₅ Ala Arg Asp Met Trp₂₄₀
 Val Met Glu Thr Gly₂₄₅ Leu Leu Leu Pro Arg₂₅₀ Ala Thr Ala Gln Asp₂₅₅ Ala
 Gly Lys Tyr Tyr₂₆₀ Cys His Arg Gly Asn₂₆₅ Leu Thr Met Ser Phe₂₇₀ His Leu
 Glu Ile Thr₂₇₅ Ala Arg Pro Val Leu₂₈₀ Trp His Trp Leu Leu₂₈₅ Arg Thr Gly
 Gly Trp₂₉₀ Lys Val Ser Ala Val₂₉₅ Thr Leu Ala Tyr Leu₃₀₀ Ile Phe Cys Leu
 Cys₃₀₅ Ser Leu Val Gly Ile₃₁₀ Leu His Leu Gln Arg₃₁₅ Ala Leu Val Leu Arg₃₂₀
 Arg Lys Arg Lys Arg₃₂₅ Met Thr Asp Pro Thr₃₃₀ Arg Arg Phe

<210> 601
 <211> 330
 <212> DNA
 <213> Artificial sequence

<220>
 <221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 601
atgctcgagg gaggcgaggt ggagactatc tccccaggag acgggcgcac cttccccaag 60
cgcgccaga cctgcgtggt gcactacacc gggatgcttg aagatggaaa gaaagttgat 120
tcctcccggg acagaaacaa gccctttaag tttatgctag gcaagcagga ggtgatccga 180
ggctgggaag aaggggttgc ccagatgagt gtgggtcaga gagccaaact gactatatct 240
ccagattatg cctatggtgc cactgggcac ccaggcatca tcccaccaca tgccactctc 300
gtcttcgatg tggagcttct aaaactggaa 330

<210> 602
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 602
Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
1 5 10 15

Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
20 25 30

Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
35 40 45

Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
50 55 60

Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
65 70 75 80

Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
85 90 95

His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105 110

<210> 603
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 603
tctggcgtg gatccgga 18

<210> 604
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 604
 Ser Gly Gly Gly Ser Gly
 1 5

<210> 605
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 605
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
 gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaacaat cagctagcag agcc 864

<210> 606
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 606

Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 Page 274

<210> 607
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 607
 gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc 54

<210> 608
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 608
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 609
 <211> 999
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 609
 atgccacctc ctgcctcct cttcttcctc ctcttcctca ccccatgga agtcaggccc 60
 gaggaacctc tagtggtgaa ggtggaagag ggagataacg ctgtgctgca gtgcctcaag 120
 gggacctcag atggccccac tcagcagctg acctggtctc gggagtcacc gcttaaacc 180
 ttcttaaaac tcagcctggg gctgccaggc ctgggaatcc acatgaggcc cctggccatc 240
 tggcttttca tcttcaacgt ctctcaacag atggggggct tctacctgtg ccagccgggg 300
 cccccctctg agaaggcctg gcagcctggc tggacagtca atgtggaggg cagcggggag 360
 ctgttccggg ggaatgtttc ggacctaggg ggcctgggct gtggcctgaa gaacaggctc 420
 tcagagggcc ccagctcccc ttccgggaag ctcagagacc ccaagctgta tgtgtgggcc 480
 aaagaccgcc ctgagatctg ggaggagag cctccgtgtc tcccaccgag ggacagcctg 540
 aaccagagcc tcagccagga cctcaccatg gccctgggct ccacactctg gctgtcctgt 600
 ggggtacccc ctgactctgt gtccaggggc cccctctcct ggacctatgt gcacccaag 660

gggcctaagt cattgctgag cctagagctg aaggacgac gcccgccag agatatgtgg 720
gtaatggaga cgggtctgtt gttgccccg gccacagctc aagacgctg aaagtattat 780
tgtcaccgtg gcaacctgac catgtcattc cacctggaga tctactgctc gccagtacta 840
tggcactggc tgctgaggac tgggtggctg aaggtctcag ctgtgacttt ggcttatctg 900
atcttctgcc tgtgttcct tgtgggcatt cttcatcttc aaagagccct ggtcctgagg 960
aggaaaagaa agcgaatgac tgacccacc aggagattc 999

<210> 610
<211> 333
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 610
Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
165 170 175

Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
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180	185	190
Gly Ser Thr 195	Leu Trp Leu Ser Cys 200	Gly Val Pro Pro Asp Ser Val Ser 205
Arg Gly Pro 210	Leu Ser Trp Thr His Val His Pro 215	Lys Gly Pro Lys Ser 220
Leu Leu Ser Leu Glu 225	Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp 230 235	
Val Met Glu Thr 245	Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala 250 255	
Gly Lys Tyr Tyr 260	Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu 265 270	
Glu Ile Thr Ala Arg Pro Val 275	Leu Trp His Trp Leu Leu Arg Thr Gly 280 285	
Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu 290 295 300		
Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg 305 310 315 320		
Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe 325 330		

<210> 611
 <211> 9
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 611
 gggagtggg

9

<210> 612
 <211> 3
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 612
 Gly Ser Gly
 1

<210> 613

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 613
gctacgaatt ttagcttgct gaagcaggcc ggtgatgtgg aagagaaccc cgggcct 57

<210> 614
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 614
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 615
<211> 264
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 615
tggcacgaag gtttgaaga ggcctccgc ctgtatttcg gtgagagaaa tgtcaaaggt 60
atgtttgaag tgcttgagcc cctgcacgcc atgatggaac gggggccgca gactctgaaa 120
gaaacctcat tcaaccaggc atacgggcga gacctgatgg aagcgcagga atggtgtagg 180
aagtacatga agtccgaaa tgtgaaggac ttgctccagg cttgggacct gtactatcac 240
gtatttcgga gaataagcaa gtaa 264

<210> 616
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 616
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 617
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 617
atgctcgagg gagtgcaggt ggagactatc tcccaggag acgggcgcac cttccccaag 60
cgcggccaga cctgcgtggt gcactacacc gggatgcttg aagatggaaa gaaagttgat 120
tcctcccggg acagaaacaa gccctttaag tttatgctag gcaagcagga ggtgatccga 180
ggctgggaag aaggggttgc ccagatgagt gtgggtcaga gagccaaact gactatatct 240
ccagattatg cctatggtgc cactgggcac ccaggcatca tcccaccaca tgccactctc 300
gtcttcgatg tggagcttct aaaactggaa 330

<210> 618
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 618
Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
1 5 10 15

Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
20 25 30

Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
35 40 45

Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
50 55 60

Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
65 70 75 80

Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
85 90 95

His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105 110

<210> 619
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 619
tctggcgggtg gatccgga

18

<210> 620
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 620
Ser Gly Gly Gly Ser Gly
1 5

<210> 621
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 621
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggt 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480

gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctcctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccgga aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 622
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 622
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 623
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 623
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc

54

<210> 624
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 624
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 625
<211> 999
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 625
 atgccacctc ctgcctcct cttcttcctc ctcttcctca ccccatgga agtcaggccc 60
 gaggaacctc tagtggtgaa ggtggaagag ggagataacg ctgtgctgca gtgcctcaag 120
 gggacctcag atggccccac tcagcagctg acctgggtctc gggagtcccc gcttaaacc 180
 ttcttaaaac tcagcctggg gctgccaggc ctgggaatcc acatgaggcc cctggccatc 240
 tggcttttca tcttcaacgt ctctcaacag atggggggct tctacctgtg ccagccgggg 300
 cccccctctg agaaggcctg gcagcctggc tggacagtca atgtggaggg cagcggggag 360
 ctgttccggt ggaatgtttc ggacctaggt ggcctgggct gtggcctgaa gaacagggtcc 420
 tcagagggcc ccagctcccc ttccgggaag ctcatgagcc ccaagctgta tgtgtgggcc 480
 aaagaccgcc ctgagatctg ggaggagag cctccgtgtc tcccaccgag ggacagcctg 540
 aaccagagcc tcagccagga cctcaccatg gccctgggt ccacactctg gctgtcctgt 600
 ggggtacccc ctgactctgt gtccaggggc cccctctcct ggacctatgt gcacccaag 660
 gggcctaagt cattgctgag cctagagctg aaggacgac gcccgccag agatatgtgg 720
 gtaatggaga cgggtctgtt gttgccccg gccacagctc aagacgctgg aaagtattat 780
 tgtcaccgtg gcaacctgac catgtcattc cacctggaga tctgtctcg gccagtacta 840
 tggcactggc tgctgaggac tgggtggctg aaggtctcag ctgtgacttt ggcttatctg 900
 atcttctgcc tgtgttcct tgtgggcatt cttcatcttc aaagagccct ggtcctgagg 960
 aggaaaagaa agcgaatgac tgacccacc aggagattc 999

<210> 626
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 626
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15
 Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30
 Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45
 Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60
 Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95
 Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110
 Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125
 Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
 130 135 140
 Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
 145 150 155 160
 Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
 165 170 175
 Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
 180 185 190
 Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
 195 200 205
 Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
 210 215 220
 Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
 225 230 235 240
 Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
 245 250 255
 Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
 260 265 270
 Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
 275 280 285
 Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
 290 295 300
 Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
 305 310 315 320
 Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
 325 330

<210> 627

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 627

gggagtggg

9

<210> 628

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 628

Gly Ser Gly

1

<210> 629

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 629

gctacgaatt ttagcttgct gaagcaggcc ggtgatgtgg aagagaaccc cgggcct

57

<210> 630

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 630

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

Pro Gly Pro

<210> 631

<211> 261

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 631
 tggcatgaag gtctggaaga agcttctcgc ctttattttg gcgaacggaa cgtaaaaggt 60
 atgtttgaag tcctggagcc attgcacgcc atgatggagc gcgggcctca gaccctcaag 120
 gaaaccagtt ttaatcaggc ctatgggcga gacctcatgg aggcacagga atggtgtcgg 180
 aagtatatga agtccggcaa cgtaaggat ctcttcgagg cctgggactt gtattatcac 240
 gtgttccggc gaatcagcaa g 261

<210> 632
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 632
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80

Val Phe Arg Arg Ile Ser Lys
 85

<210> 633
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 633
 cgtacg 6

<210> 634
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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peptide"

<400> 634
Arg Thr
1

<210> 635
<211> 264
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 635
tggcacgaag gtttggaaga ggcctccgc ctgtatttcg gtgagagaaa tgtcaaaggt 60
atgtttgaag tgcttgagcc cctgcacgcc atgatggaac gggggccgca gactctgaaa 120
gaaacctcat tcaaccaggc atacgggcga gacctgatgg aagcgcagga atggtgtagg 180
aagtacatga agtccggaag tgtgaaggac ttgctccagg cttgggacct gtactatcac 240
gtatttcgga gaataagcaa gtaa 264

<210> 636
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 636
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 637
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 637
 atgctcgagg gagtgcaggt ggagactatc tccccaggag acggg'gcac cttccccaag 60
 cgcgccaga cctgcgtggt gcactacacc gggatgcttg aagatggaaa gaaagttgat 120
 tcctcccgga acagaaacaa gccctttaag tttatgctag gcaagcagga ggtgatccga 180
 ggctgggaag aaggggttgc ccagatgagt gtgggtcaga gagccaaact gactatatct 240
 ccagattatg cctatggtgc cactgggcac ccaggcatca tcccaccaca tgccactctc 300
 gtcttcgatg tggagcttct aaaactggaa 330

<210> 638
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 638
 Met Leu Glu Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg
 1 5 10 15
 Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met
 20 25 30
 Leu Glu Asp Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro
 35 40 45
 Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu
 50 55 60
 Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser
 65 70 75 80
 Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro
 85 90 95
 His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105 110

<210> 639
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 639

tctggcggtg gatccgga

18

<210> 640
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 640
Ser Gly Gly Gly Ser Gly
1 5

<210> 641
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 641
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggt tgctttaatt tcctccgaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 642
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 642
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15
 Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30
 Ile Ile Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg
 35 40 45
 Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60
 Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 643
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 643
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccc 54

<210> 644
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 644
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 645
<211> 999
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 645
atgccacctc ctgcctcct cttcttcctc ctcttcctca ccccatgga agtcaggccc 60
gaggaacctc tagtggtgaa ggtggaagag ggagataacg ctgtgctgca gtgcctcaag 120
gggacctcag atggccccac tcagcagctg acctggtctc gggagtcccc gcttaaacc 180
ttcttaaaac tcagcctggg gctgccaggc ctgggaatcc acatgaggcc cctggccatc 240
tggcttttca tcttcaacgt ctctcaacag atggggggct tctacctgtg ccagccgggg 300
ccccctctg agaaggcctg gcagcctggc tggacagtca atgtggaggg cagcggggag 360
ctgttccggt ggaatgtttc ggacctaggt ggcctgggct gtggcctgaa gaacaggtcc 420
tcagagggcc ccagctcccc ttccgggaag ctcatgagcc ccaagctgta tgtgtgggcc 480
aaagaccgcc ctgagatctg ggagggagag cctccgtgtc tcccaccgag ggacagcctg 540
aaccagagcc tcagccagga cctcaccatg gccctgggct ccacactctg gctgtcctgt 600

ggggtacccc ctgactctgt gtccaggggc cccctctcct ggacccatgt gcaccccaag 660
 gggcctaagt cattgctgag cctagagctg aaggacgata gcccggccag agatatgtgg 720
 gtaatggaga cgggtctggt gttgccccgg gccacagctc aagacgctgg aaagtattat 780
 tgtcaccgtg gcaacctgac catgtcattc cacctggaga tctactgctcg gccagtacta 840
 tggcactggc tgctgaggac tggtagctgg aaggtctcag ctgtgacttt ggcttatctg 900
 atcttctgcc tgtgttcctt tgtgggcatt cttcatcttc aaagagccct ggtcctgagg 960
 aggaaaagaa agcgaatgac tgacccacc aggagattc 999

<210> 646
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 646
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
 130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
 145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
 165 170 175

Arg Asp Ser Leu₁₈₀ Asn Gln Ser Leu Ser₁₈₅ Gln Asp Leu Thr Met Ala Pro
 Gly Ser Thr₁₉₅ Leu Trp Leu Ser Cys₂₀₀ Gly Val Pro Pro Asp₂₀₅ Ser Val Ser
 Arg Gly₂₁₀ Pro Leu Ser Trp Thr₂₁₅ His Val His Pro Lys₂₂₀ Gly Pro Lys Ser
 Leu₂₂₅ Leu Ser Leu Glu₂₃₀ Leu Lys Asp Asp Arg Pro₂₃₅ Ala Arg Asp Met Trp₂₄₀
 Val Met Glu Thr Gly₂₄₅ Leu Leu Leu Pro Arg₂₅₀ Ala Thr Ala Gln Asp₂₅₅ Ala
 Gly Lys Tyr Tyr₂₆₀ Cys His Arg Gly Asn₂₆₅ Leu Thr Met Ser Phe₂₇₀ His Leu
 Glu Ile Thr₂₇₅ Ala Arg Pro Val Leu₂₈₀ Trp His Trp Leu Leu₂₈₅ Arg Thr Gly
 Gly Trp₂₉₀ Lys Val Ser Ala Val₂₉₅ Thr Leu Ala Tyr Leu₃₀₀ Ile Phe Cys Leu
 Cys₃₀₅ Ser Leu Val Gly Ile₃₁₀ Leu His Leu Gln Arg₃₁₅ Ala Leu Val Leu Arg₃₂₀
 Arg Lys Arg Lys Arg₃₂₅ Met Thr Asp Pro Thr₃₃₀ Arg Arg Phe

<210> 647
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 647
 gggagtggg

9

<210> 648
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 648
 Gly Ser Gly
 1

<210> 649
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 649
gctacgaatt ttagcttgct gaagcaggcc ggtgatgtgg aagagaaccc cgggcct 57

<210> 650
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 650
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 651
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 651
tggcatgaag gtctggaaga agcttctcgc ctttattttg gcgaacggaa cgtaaaaggt 60
atgtttgaag tcctggagcc attgcacgcc atgatggagc gcgggcctca gaccctcaag 120
gaaaccagtt ttaatcaggc ctatgggcga gacctcatgg aggcacagga atggtgtcgg 180
aagtatatga agtccggcaa cgtaaggat ctcttcgagg cctgggactt gtattatcac 240
gtgttccggc gaatcagcaa g 261

<210> 652
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 652
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 653
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 653
cgtacg

6

<210> 654
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 654
Arg Thr
1

<210> 655
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 655
tggcacgaag gtctggacga ggctagtaga ctgtatttcg gcgagagaaa tgtaaaggga 60
atgttcgagg tactggagcc tctgcacgcc atgatggaac gcggccctca gacactcaag 120
gagactagtt ttaaccaggc ctatggcagg gatctgatgg aggctcagga atggtgccgg 180
aagtatatga aaagcggtaa cgtgaaggac ctgctgcagg cctgggatct gtattatcac 240

gtgtttagaa gaatctctaa a

261

<210> 656
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 656
Trp His Glu Gly Leu Asp Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 657
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 657
cgtacg

6

<210> 658
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 658
Arg Thr
1

<210> 659

<211> 264
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 659
tggcacgaag gtttgaaga ggcctccgc ctgtatttcg gtgagagaaa tgtcaaaggt 60
atgtttgaag tgcttgagcc cctgcacgcc atgatggaac gggggccgca gactctgaaa 120
gaaacctcat tcaaccaggc atacgggcga gacctgatgg aagcgcagga atggtgtagg 180
aagtacatga agtccggaat tgtgaaggac ttgctccagg cttgggacct gtactatcac 240
gtatttcgga gaataagcaa gtaa 264

<210> 660
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 660
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 661
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 661
tggcacgagg ggctggagga ggcaagtcga ctgtattttg gagaacgcaa cgtaaaggga 60

atgtttgagg tgctcgaacc actccatgct atgatggaaa gggggcctca gactcttaag 120
gaaacaagtt ttaatcaagc ctacggacga gacctcatgg aggcgcagga gtggtgcaga 180
aaatacatga aatcaggtaa tgttaaggac ctgctgcagg catgggacct gtactaccat 240
gtcttcaggc gcatctcaaa g 261

<210> 662
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 662
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 663
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 663
atgcattctg gtggaggatc aggcgttgaa 30

<210> 664
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 664

Met His Ser Gly Gly Gly Ser Gly Val Glu
1 5 10

<210> 665
<211> 513
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 665
gcagctggag gccctggcgc aggctctgca gcccctgtat ctagcacctc ttctcttcct 60
ctggctgcmc tgaacatgag agtgccgaga cggttgtctt tggtcttgaa tgtcagaaca 120
caggttgcmg cggactggac cgctctggcc gaggaatgg acttcgagta cctggagatc 180
aggcaactcg aaacgcaggc agatcctaca ggcagactgt tggatgcgtg gcagggacgg 240
cccggagcca gcgttgagac gctccttgat cttctcacca agctgggcag agatgacgtg 300
ctgctggaat tgggccccag tattgaggag gactgccaaa aatacatctt gaagcagcaa 360
caggaggagg cggagaagcc cctccaggtc gcagccgtcg attcatccgt gcctagaaca 420
gccgaacttg caggcatcac taccctggat gatcccctgg gccatatgcc agagaggttt 480
gatgcgttta tctgctattg cccaagcgat atc 513

<210> 666
<211> 171
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 666
Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser Thr
1 5 10 15

Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg Leu
20 25 30

Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr Ala
35 40 45

Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu Glu
50 55 60

Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly Arg
65 70 75 80

Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu Gly
85 90 95

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

Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro Leu
115 120 125

Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu Ala
130 135 140

Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg Phe
145 150 155 160

Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 667
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 667
gttgag

6

<210> 668
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 668
Val Glu
1

<210> 669
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 669
aagaaggtag ccaagaagcc aaccaataaa gtcacatc ctaaacagga gccacaagaa 60
atcaactttc cagatgatct ccctggctct aatactgcag cccccgtgca ggaaaccctg 120
cacggctgtc aacctgtgac acaggaagac gggaaggaaa gcaggatatc cgtgcaggaa 180
cggcaa 186

<210> 670
 <211> 62
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 670
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 671
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 671
 gtcgac

6

<210> 672
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 672
 Val Asp
 1

<210> 673
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 673
 tacccatagc acgtgccaga ttatgct

27

<210> 674
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 674
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 675
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 675
ccgcgg

6

<210> 676
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 676
Pro Arg
1

<210> 677
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 677
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 678
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 678
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 679
 <211> 1002
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 679
 atgccaccac ctcgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct 60
 gaggaaccac tggctgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
 ggcactttctg atgggccaac tcagcagctg acctggtcca gggagtctcc cctgaagcct 180
 tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240
 tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
 ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
 ctgttttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
 tctgaaggcc caagttcacc ctcaggggaag ctgatgagcc caaaactgta cgtgtgggcc 480
 aaagatcggc ccgagatctg ggagggagaa cctccatgcc tgccacctag agacagcctg 540
 aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
 ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatacctaag 660
 gggccaaaaa gtctgctgtc actggaactg aaggacgac ggcttgccag agacatgtgg 720
 gtcattggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
 tgccaccggg gcaatctgac aatgtccttc catctggaga tcaactgcaag gcccgctgtg 840
 tggcactggc tgctgcgaac cggaggatgg aaggtcagt ctgtgacact ggcatactctg 900
 atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg 960
 agaaagagaa agagaatgac tgaccaaca agaaggtttt ga 1002

<210> 680
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 680
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30
 Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45
 Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60
 Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80
 Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95
 Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110
 Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125
 Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
 130 135 140
 Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
 145 150 155 160
 Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
 165 170 175
 Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
 180 185 190
 Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
 195 200 205
 Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
 210 215 220
 Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
 225 230 235 240
 Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
 245 250 255
 Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
 260 265 270
 Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
 275 280 285

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
 290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
 305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
 325 330

<210> 681
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 681
 atgctcgag

9

<210> 682
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 682
 Met Leu Glu
 1

<210> 683
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 683
 tggcacgagg ggctggagga ggcaagtcga ctgtattttg gagaacgcaa cgtaaaggga 60
 atgtttgagg tgctcgaacc actccatgct atgatggaaa gggggcctca gactcttaag 120
 gaaacaagtt ttaatcaagc ctacggacga gacctcatgg aggcgcagga gtggtgcaga 180
 aaatacatga aatcaggtaa tgtaaggac ctgctgcagg catgggacct gtactaccat 240
 gtcttcaggc gcatctcaaa g 261

<210> 684
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 684
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15

 Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30

 Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45

 Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60

 Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80

 Val Phe Arg Arg Ile Ser Lys
 85

<210> 685
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 685
 atgcat

6

<210> 686
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 686
 Met His
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<210> 687
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 687

tggcacgaag gcctggaaga ggcctcaaga ctttactttg gtgaacgcaa cgttaaaggc 60
 atgttcgagg tgctggaacc cttgcatgca atgatggagc gaggtcctca gacactcaaa 120
 gagacatctt ttaaccaggc gtatggacgg gacctcatgg aggctcagga atggtgccgc 180
 aagtacatga aaagtgggaa tgtgaaggat ctgctgcaag catgggatct gtattaccac 240
 gtgtttagac ggatcagcaa a 261

<210> 688
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 688
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80

Val Phe Arg Arg Ile Ser Lys
 85

<210> 689
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 689
 atgcattctg gtggaggatc aggcgttgaa 30

<210> 690
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 690
Met His Ser Gly Gly Gly Ser Gly Val Glu
1 5 10

<210> 691
<211> 513
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 691
gcagctggag gccctggcgc aggctctgca gccctgtat ctagcacctc ttctcttcct 60
ctggctgcgc tgaacatgag agtgcggaga cggttgctctt tgttcttgaa tgtcagaaca 120
caggttgcag cggactggac cgctctggcc gaggaatgg acttcgagta cctggagatc 180
aggcaactcg aaacgcaggc agatcctaca ggcagactgt tggatgcgtg gcagggacgg 240
cccggagcca gcgttgacg gctccttgat cttctcacca agctgggcag agatgacgtg 300
ctgctggaat tgggccccag tattgaggag gactgccaaa aatacatctt gaagcagcaa 360
caggaggagg cggagaagcc cctccaggtc gcagccgtcg attcatccgt gcctagaaca 420
gccgaacttg caggcatcac taccctggat gatcccctgg gccatatgcc agagaggttt 480
gatgctgcta tctgctattg cccaagcgat atc 513

<210> 692
<211> 171
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 692
Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser Thr
1 5 10 15

Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg Leu
20 25 30

Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr Ala
35 40 45

Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu Glu
50 55 60

Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly Arg
65 70 75 80

Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu Gly
85 90 95

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

Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro Leu
115 120 125

Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu Ala
130 135 140

Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg Phe
145 150 155 160

Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 693
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 693
gttgag

6

<210> 694
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 694
Val Glu
1

<210> 695
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 695
aagaaggtgg ccaagaagcc aaccaataaa gtcacatc ctaaagagga gccacaagaa 60
atcaactttc cagatgatct ccctggctct aatactgcag ccccggtgca ggaaaccctg 120
cacggctgtc aacctgtgac acaggaagac gggaaggaaa gcaggatatc cgtgcaggaa 180
cggcaa 186

<210> 696
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 696
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 697
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 697
gtcgac

6

<210> 698
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 698
Val Asp
1

<210> 699
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 699

taccatacgc acgtgccaga ttatgct

27

<210> 700
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 700
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 701
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 701
ccgcgg

6

<210> 702
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 702
Pro Arg
1

<210> 703
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 703
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 704
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 704

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 705

<211> 1002

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 705

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atgccaccac ctcgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct      60
gaggaaccac tggctcgtgaa ggtcgaggaa ggcgacaatg cctgtcgtgca gtgcctgaaa      120
ggcacttctg atgggccaac tcagcagctg acctggtcca gggagtctcc cctgaagcct      180
tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc      240
tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga      300
ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa      360
ctgttttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc      420
tctgaaggcc caagttcacc ctgaggaag ctgatgagcc caaaactgta cgtgtggggc      480
aaagatcggc ccgagatctg ggagggagaa cctccatgcc tgccacctag agacagcctg      540
aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt      600
ggagtcccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatacctaag      660
gggcaaaaaa gtctgctgtc actggaactg aaggacgatc ggcctgccag agacatgtgg      720
gtcatggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat      780
tgccaccggg gcaatctgac aatgtccttc catctggaga tctactgcaag gcccgctgtg      840
tggcactggc tgctgcgaac cggaggatgg aaggctcagt ctgtgacact ggcataatctg      900
atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg      960
agaaagagaa agagaatgac tgaccaaca agaaggtttt ga                        1002
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<210> 706

<211> 333

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 706

Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met

1					5					10					15				
Glu	Val	Arg	Pro	Glu	Glu	Pro	Leu	Val	Val	Lys	Val	Glu	Glu	Gly	Asp				
			20					25					30						
Asn	Ala	Val	Leu	Gln	Cys	Leu	Lys	Gly	Thr	Ser	Asp	Gly	Pro	Thr	Gln				
		35					40					45							
Gln	Leu	Thr	Trp	Ser	Arg	Glu	Ser	Pro	Leu	Lys	Pro	Phe	Leu	Lys	Leu				
	50					55					60								
Ser	Leu	Gly	Leu	Pro	Gly	Leu	Gly	Ile	His	Met	Arg	Pro	Leu	Ala	Ile				
65					70					75					80				
Trp	Leu	Phe	Ile	Phe	Asn	Val	Ser	Gln	Gln	Met	Gly	Gly	Phe	Tyr	Leu				
				85					90					95					
Cys	Gln	Pro	Gly	Pro	Pro	Ser	Glu	Lys	Ala	Trp	Gln	Pro	Gly	Trp	Thr				
			100					105					110						
Val	Asn	Val	Glu	Gly	Ser	Gly	Glu	Leu	Phe	Arg	Trp	Asn	Val	Ser	Asp				
		115					120					125							
Leu	Gly	Gly	Leu	Gly	Cys	Gly	Leu	Lys	Asn	Arg	Ser	Ser	Glu	Gly	Pro				
	130					135					140								
Ser	Ser	Pro	Ser	Gly	Lys	Leu	Met	Ser	Pro	Lys	Leu	Tyr	Val	Trp	Ala				
145					150					155					160				
Lys	Asp	Arg	Pro	Glu	Ile	Trp	Glu	Gly	Glu	Pro	Pro	Cys	Leu	Pro	Pro				
				165					170					175					
Arg	Asp	Ser	Leu	Asn	Gln	Ser	Leu	Ser	Gln	Asp	Leu	Thr	Met	Ala	Pro				
			180					185					190						
Gly	Ser	Thr	Leu	Trp	Leu	Ser	Cys	Gly	Val	Pro	Pro	Asp	Ser	Val	Ser				
		195					200					205							
Arg	Gly	Pro	Leu	Ser	Trp	Thr	His	Val	His	Pro	Lys	Gly	Pro	Lys	Ser				
	210					215					220								
Leu	Leu	Ser	Leu	Glu	Leu	Lys	Asp	Asp	Arg	Pro	Ala	Arg	Asp	Met	Trp				
225				230						235					240				
Val	Met	Glu	Thr	Gly	Leu	Leu	Leu	Pro	Arg	Ala	Thr	Ala	Gln	Asp	Ala				
				245					250					255					
Gly	Lys	Tyr	Tyr	Cys	His	Arg	Gly	Asn	Leu	Thr	Met	Ser	Phe	His	Leu				
			260					265					270						
Glu	Ile	Thr	Ala	Arg	Pro	Val	Leu	Trp	His	Trp	Leu	Leu	Arg	Thr	Gly				
		275					280					285							

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
325 330

<210> 707
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 707
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 708
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 708
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 709
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 709
gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60
ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120
ggacaatccc caaaattgct gatttattct gcctctagta ggtacactgg ggtaccttct 180
cggtttacgg gctctgggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
gaagacctcg ctgtttatatt ttgccagcag cacttccgaa ccccttttac ttttggtcga 300

ggcactaagt tggaaatcaa ggctttg

327

<210> 710
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 710
Asp Ile Gln Leu Thr Gln Ser His Lys Phe Leu Ser Thr Ser Val Gly
1 5 10 15

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

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

Tyr Ser Ala Ser Ser Arg Tyr Thr Gly Val Pro Ser Arg Phe Thr Gly
50 55 60

Ser Gly Ser Gly Pro Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Ala
65 70 75 80

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

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

<210> 711
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 711
ggcggaggaa gcggaggtgg gggc

24

<210> 712
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 712
Gly Gly Gly Ser Gly Gly Gly Gly

<210> 713
 <211> 357
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 713
 gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc ccggcgaaac agtgaagata 60
 tcttgtaaag cctccggtta cccttttacg aactatggaa tgaactgggt caaacaagcc 120
 cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
 gcagatgatt tcaaaggtcg ctttgacttc tctactggaga ccagtgcaaa taccgcctac 240
 cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg c aagatgggaa 300
 gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgcacgt tagtagc 357

<210> 714
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 714
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu 15
 1 5 10
 Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Pro Phe Thr Asn Tyr 30
 20 25 30
 Gly Met Asn Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Lys Trp Met 45
 35 40 45
 Gly Trp Ile Asn Thr Ser Thr Gly Glu Ser Thr Phe Ala Asp Asp Phe 60
 50 55 60
 Lys Gly Arg Phe Asp Phe Ser Leu Glu Thr Ser Ala Asn Thr Ala Tyr 80
 65 70 75 80
 Leu Gln Ile Asn Asn Leu Lys Ser Glu Asp Met Ala Thr Tyr Phe Cys 95
 85 90 95
 Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly 110
 100 105 110
 Thr Thr Val Thr Val Ser Ser 115

<210> 715
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 715
ggatcc

6

<210> 716
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 716
Gly Ser
1

<210> 717
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 717
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 718
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 718
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 719
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 719
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 720
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 720
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 721
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 721
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 722
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 722
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

Cys Lys Cys Pro Arg
 35

<210> 723
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 723
 ctcgag

6

<210> 724
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 724
 Leu Glu
 1

<210> 725
 <211> 335
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 725
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
 tacgacgcc ttcacatgca agctcttcca cctcg 335

<210> 726
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 726
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
100 105 110

<210> 727
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 727
tcaggcgggtg gctcaggtgt taac

24

<210> 728
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 728
Ser Gly Gly Gly Ser Gly Val Asn
1 5

<210> 729
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 729
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60

acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120

gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180

gagggcgtgg ctcaaagtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tccccctaag attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 730
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 730
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 731
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 731
gttaac

6

<210> 732
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 732
Val Asn
1

<210> 733
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 733
ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaattcga ttcctctcgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtggggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg cactgggca cccacctaag atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 734
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 734
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 735
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 735
ggatcggga

9

<210> 736
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 736
Gly Ser Gly
1

<210> 737
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 737
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct

57

<210> 738
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 738
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 739
<211> 261
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 739
 tggcatgaag gcctggaaga ggcattctcgt ttgtactttg gggaaaggaa cgtgaaaggc 60
 atgtttgagg tgctggagcc cttgcacgct atgatggaac ggggccccca gactctgaag 120
 gaaacatcct ttaatcaggc ctatggtcga gatttaatgg aggcccaaga gtggtgcagg 180
 aagtacatga aatcagggaa tgtcaaggac ctctccaag cctgggacct ctattatcat 240
 gtgttccgac gaatctcaaa g 261

<210> 740
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 740
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15
 Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30
 Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45
 Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60
 Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80
 Val Phe Arg Arg Ile Ser Lys
 85

<210> 741
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 741
 gtcgag 6

<210> 742
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 742
 Val Glu
 1

<210> 743
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 743
 tggcatgaag gggtggaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
 atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
 gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
 aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctggggacct ttattaccat 240
 gtgttcaggc ggatcagtaa g 261

<210> 744
 <211> 87
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 744
 Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
 1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
 20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
 35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
 50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
 65 70 75 80

Val Phe Arg Arg Ile Ser Lys
 85

<210> 745

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 745
tcaggcgggtg gctcaggt

18

<210> 746
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 746
Ser Gly Gly Gly Ser Gly
1 5

<210> 747
<211> 921
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 747
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtggtgtc actctgaaga cctgcagtcc ctctgtctta gggtcgctaa tgctgtttcg 780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agccgagggc aggggaagtc ttctaactg cggggacgtg 900

gaggaaaatc ccgggccctg a

921

<210> 748
<211> 306
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 748
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
290 295 300

Gly Pro
305

<210> 749
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 749
atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 750
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 750
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30
 Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45
 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60
 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95
 Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110
 Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125
 Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140
 Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160
 Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 751
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 751
 gtcgag

6

<210> 752
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 752
 val gly
 1

<210> 753
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 753
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 754
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 754
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 755
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 755
gtcgag 6

<210> 756
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 756
Val Gly
1

<210> 757
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 757
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 758
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 758
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 763
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 763
ccgcgg

6

<210> 764
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 764
Pro Arg
1

<210> 765
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 765
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 766

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

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 766
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 767
 <211> 1002
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 767
 atgccaccac ctgcctgct gttctttctg ctgttcctga cacctatgga ggtgacgacct 60
 gaggaaccac tggctgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
 ggcacttctg atgggccaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct 180
 tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240
 tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
 ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
 ctgttttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
 tctgaaggcc caagttcacc ctcagggaag ctgatgagcc caaaactgta cgtgtgggcc 480
 aaagatcggc ccgagatctg ggaggagaa cctccatgcc tgccacctag agacagcctg 540
 aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
 ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcacctaag 660
 gggccaaaaa gtctgctgtc actggaactg aaggacgac ggcctgccag agacatgtgg 720
 gtcacggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
 tgccaccggg gcaatctgac aatgtcctt catctggaga tctactgcaag gcccgctgtg 840
 tggcactggc tgctgcgaac cggaggatgg aaggctcagt ctgtgacact ggcatactgt 900
 atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg 960
 agaaagagaa agagaatgac tgaccaaca agaaggtttt ga 1002

<210> 768
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 768

Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
165 170 175

Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
180 185 190

Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
195 200 205

Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
210 215 220

Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
225 230 235 240

Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
245 250 255

Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
260 265 270

Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
275 280 285

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
325 330

<210> 769
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 769
atggggagta gcaagagcaa gcctaaggac cccagccagc gc

42

<210> 770
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 770
Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
1 5 10

<210> 771
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 771
ctcgac

6

<210> 772
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 772
 Leu Asn
 1

<210> 773
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 773
 atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcggggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 774
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 774
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 775
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 775
gtcgag

6

<210> 776
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 776
val Gly
1

<210> 777
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 777
aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60

atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120
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catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 778
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 778
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 779
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 779
gtcgag 6

<210> 780
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 780
Val Gly
1

<210> 781
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 781
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 782
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 782
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 783
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 783
gtcgag

<210> 784
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 784
 Val Gly
 1

<210> 785
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 785
 ggagtgcagg tggagactat ctccccagga gacgggcgca ctttcccaa gcgcggccag 60
 acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
 gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
 gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
 gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
 gtggagcttc taaaactgga a 321

<210> 786
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 786
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 787
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 787
ccgcgg

6

<210> 788
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 788
Pro Arg
1

<210> 789
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 789
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 790
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 790
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 791
<211> 1002
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 791
atgccaccac ctcgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct 60
gaggaaccac tggctcgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
ggcactttctg atgggccaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct 180
tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240
tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
ctgttttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
tctgaaggcc caagttcacc ctcaggggaag ctgatgagcc caaaactgta cgtgtggggc 480
aaagatcggc ccgagatctg ggagggagaa cctccatgcc tgccacctag agacagcctg 540
aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatacctaag 660
gggcaaaaa gtctgctgtc actggaactg aaggacgac ggctgccag agacatgtgg 720
gtcatggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
tgccaccggg gcaatctgac aatgtccttc catctggaga tcaactgaag gcccgctgtg 840
tggcactggc tgctgcgaac cggaggatgg aaggtcagt ctgtgacact ggcatactctg 900
atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg 960
agaaagagaa agagaatgac tgaccaaca agaaggtttt ga 1002

<210> 792
<211> 333
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 792
Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
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35

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45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
165 170 175

Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
180 185 190

Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
195 200 205

Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
210 215 220

Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
225 230 235 240

Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
245 250 255

Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
260 265 270

Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
275 280 285

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
325 330

<210> 793
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 793
tgcatgaag gcctggaaga ggcattctcgt ttgtactttg gggaaaggaa cgtgaaaggc 60
atgtttgagg tgctggagcc cttgcacgct atgatggaac ggggccccca gactctgaag 120
gaaacatcct ttaatcaggc ctatggtcga gatttaaatgg aggcccaaga gtggtgcagg 180
aagtacatga aatcaggga tgtaaggac ctctccaag cctgggacct ctattatcat 240
gtgttccgac gaatctcaaa g 261

<210> 794
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 794
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
50 55 60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 795
<211> 6
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 795
gtcgag

6

<210> 796
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 796
val Gly
1

<210> 797
<211> 261
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 797
tggcatgaag ggttgaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctggggacct ttattaccat 240
gtgttcaggc ggatcagtaa g 261

<210> 798
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 798
Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg
1 5 10 15

Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met
20 25 30

Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln Ala Tyr
35 40 45

Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys
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50

55

60

Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His
65 70 75 80

Val Phe Arg Arg Ile Ser Lys
85

<210> 799
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 799
tcaggcgggtg gctcaggt

18

<210> 800
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 800
Ser Gly Gly Gly Ser Gly
1 5

<210> 801
<211> 863
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 801
tcgacggatt tggatgatgct ggtgctcttg agagtttgag gggaaatgca gatttggtt 60
acatcctgag catggagccc tgtggccact gcctcattat caacaatgtg aacttctgcc 120
gtgagtccgg gctccgcacc cgcactggct ccaacatcga ctgtgagaag ttgcggcgctc 180
gcttctcctc gctgcatttc atggtggagg tgaagggcga cctgactgcc aagaaaatgg 240
tgctggcttt gctggagctg gcgcggcagg accacggtgc tctggactgc tgcgtggtgg 300
tcattctctc tcacggctgt caggccagcc acctgcagtt cccaggggct gtctacggca 360
cagatggatg ccctgtgtcg gtcgagaaga ttgtgaacat cttcaatggg accagctgcc 420
ccagcctggg aggggaagccc aagctctttt tcatccaggc ctgtggtggg gagcagaaag 480
accatgggtt tgaggtggcc tccacttccc ctgaagacga gtcccctggc agtaaccccg 540

agccagatgc caccctgttc caggaagggt tgaggacctt cgaccagctg gacgccatat 600
ctagtttgcc cacaccagct gacatctttg tgcctactc tactttccca ggttttgttt 660
cctggaggga cccaagagt ggctcctggt acgttgagac cctggacgac atctttgagc 720
agtgggctca ctctgaagac ctgcagtccc tcctgcttag ggtcgctaata gctgtttcgg 780
tgaaagggat ttataaacag atgcctggtt gctttaattt cctccgga aaacttttct 840
ttaaaacatc agctagcaga gcc 863

<210> 802
<211> 287
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 802
Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala
1 5 10 15

Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile
20 25 30

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

Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu
50 55 60

His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val
65 70 75 80

Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys
85 90 95

Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln
100 105 110

Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu
115 120 125

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

Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp
145 150 155 160

His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly
165 170 175

Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr

180 185 190
 Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile
 195 200 205
 Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro
 210 215 220
 Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln
 225 230 235 240
 Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn
 245 250 255
 Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn
 260 265 270
 Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 803
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 803
 ccgcgg

6

<210> 804
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 804
 Pro Arg
 1

<210> 805
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 805
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 806
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 806
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 807
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 807
atggaatttg gcctctcctg gttgtttctc gtggccattc ttaagggtgt gcagtgtctc 60
aga 63

<210> 808
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 808
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 809
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 809
atgcat 6

<210> 810
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 810
Met His
1

<210> 811
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 811
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 812
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 812
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 813
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 813
cccgcccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 814
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 814

Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 815

<211> 117

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 815

atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60

actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag ggtcgac 117

<210> 816

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 816

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg Val Asp
35

<210> 817

<211> 335

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 817

agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60

tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120

cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcg 335

<210> 818
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 818
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
100 105 110

<210> 819
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 819
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttgag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300

gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 820
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 820
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 821
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 821
gtcgag

6

<210> 822
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 822
Val Glu
1

<210> 823
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 823
aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 824
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 824
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
Page 355

50

55

60

<210> 825
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 825
 gtcgag

6

<210> 826
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 826
 val Glu
 1

<210> 827
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 827
 ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtg gaggacggca aaaaggtgga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 828
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 828
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 829
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 829
gtcgag

6

<210> 830
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 830
val Glu
1

<210> 831
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 831
ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttcccca ggcgcggccag 60

acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttctctccgg 120
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gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 832
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 832
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 833
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 833
ccgcgg

6

<210> 834
<211> 2
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 834
Pro Arg
1

<210> 835
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 835
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 836
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 836
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 837
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 837
ccatgg 6

<210> 838
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 838
Pro Trp
1

<210> 839
 <211> 63
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 839
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
 agg 63

<210> 840
 <211> 21
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 840
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

 Val Gln Cys Ser Arg
 20

<210> 841
 <211> 321
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 841
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 842
 <211> 107
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
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polypeptide"

<400> 842

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

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 843

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 843

ggcggaggaa gcggaggtgg gggc

24

<210> 844

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 844

Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 845

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 845
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcattaccc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgcca acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 846
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 846
Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 847
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 847

ggatcc

6

<210> 848
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 848
Gly Ser
1

<210> 849
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 849
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 850
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 850
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 851
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 851
cccgcccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 852
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 852
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

 Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

 His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 853
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 853
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 854
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 854
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

 Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

 Cys Lys Cys Pro Arg
 35

<210> 855
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 855

<210> 856
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 856
 Val Asp
 1

<210> 857
 <211> 335
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 857
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac caggtctca gtacagccac caaggacacc 300
 tacgacgcc ttcatatgca agctcttcca cctcg 335

<210> 858
 <211> 111
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 858
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
100 105 110

<210> 859
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 859
atggggagta gcaagagcaa gcctaaggac cccagccagc gc

42

<210> 860
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 860
Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
1 5 10

<210> 861
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 861
ctcgac

6

<210> 862
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 862
Leu Asp
1

<210> 863
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 863
 atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgtg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 864
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 864
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15
 Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30
 Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45
 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60
 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95
 Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 865
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 865
 gtcgag

6

<210> 866
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 866
 Val Glu
 1

<210> 867
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 867
 aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 868
 <211> 62
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 868

Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 869

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 869

gtcgag

6

<210> 870

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 870

val Glu

1

<210> 871

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 871

ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60

acatgtgtcg tccattatac aggcattgtt gagggacggca aaaaggtgga cagtagtaga 120

gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180

gagggcgtgg ctcaaagtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 872
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 872
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 873
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 873
gtcgag 6

<210> 874
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 874
Val Glu
1

<210> 875
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 875
ggagtgcagg tggagactat ctccccagga gacgggcgca ccttcccca ggcgggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttctcccg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg cactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 876
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 876
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 877
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 877
ccgcgg

6

<210> 878
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 878
Pro Arg
1

<210> 879
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 879
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 880
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 880
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 881
<211> 6
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 881
ccatgg

6

<210> 882
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 882
Pro Trp
1

<210> 883
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 883
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
agg

60

63

<210> 884
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 884
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 885
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 885

gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
gggactaagt tggaaataac a 321

<210> 886
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 886
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 887
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 887
ggcggaggaa gcggaggtgg gggc 24

<210> 888
<211> 8
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 888

Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 889

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 889

gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc	60
acatgcactg tctcaggggt ctcattacc gactatggtg taagctggat tcgccagcct	120
ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat	180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta	240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac	300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctctca	360

<210> 890

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 890

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

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 891
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 891
ggatcc

6

<210> 892
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 892
Gly Ser
1

<210> 893
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 893
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 894
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 894
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 895

<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 895
cccgcccaaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 896
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 896
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 897
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 897
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 898
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 898
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 899
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 899
gtcgac

6

<210> 900
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 900
Val Asp
1

<210> 901
<211> 335
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 901
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcg 335

<210> 902
<211> 111
<212> PRT
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"
 <400> 902
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro
 100 105 110

<210> 903
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 903
 atgctcag

9

<210> 904
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 904
 Met Leu Glu
 1

<210> 905
 <211> 261
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 905
tggcatgaag ggttggaaga agcttcaagg ctgtacttcg gagagaggaa cgtgaagggc 60
atgtttgagg ttcttgaacc tctgcacgcc atgatggaac ggggaccgca gacactgaaa 120
gaaacctctt ttaatcaggc ctacggcaga gacctgatgg aggcccaaga atggtgtaga 180
aagtatatga aatccggtaa cgtgaaagac ctgctccagg cctggggacct ttattaccat 240
gtgttcaggc ggatcagtaa g 261

<210> 906
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 906
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Pro Lys Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 907
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 907
tcaggcgggtg gctcaggtgt cgag 24

<210> 908

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 908
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 909
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 909
gtcgcaggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gaggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
tttaaaacat cagctagcag agcc 864

<210> 910
<211> 287
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 910
Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala
1 5 10 15

Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile
 20 25 30

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

Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu
 50 55 60

His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val
 65 70 75 80

Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys
 85 90 95

Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln
 100 105 110

Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu
 115 120 125

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

Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp
 145 150 155 160

His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly
 165 170 175

Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr
 180 185 190

Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile
 195 200 205

Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro
 210 215 220

Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln
 225 230 235 240

Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn
 245 250 255

Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn
 260 265 270

Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 911
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 911
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccctga

57

<210> 912
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 912
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 913
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 913
atgctcgag

9

<210> 914
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 914
Met Leu Glu
1

<210> 915
<211> 321
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 915
 ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttccccaa ggcgcggccag 60
 acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccg 120
 gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
 gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
 gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
 gtggagcttc taaaactgga a 321

<210> 916
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 916
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu
 100 105

<210> 917
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 917
 tcaggcgggtg gctcaggtgt cgag

<210> 918
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 918
 Ser Gly Gly Gly Ser Gly Val Asp
 1 5

<210> 919
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 919
 gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
 tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
 cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
 cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
 gtgctggctt tgctggagct ggcgcggcag gaccacggtg ctctggactg ctgcgtggtg 300
 gtcattctct ctacaggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
 acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
 cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtggtgg ggagcagaaa 480
 gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
 gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
 tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttggt 660
 tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720
 cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 920
 <211> 287
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 920

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

Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile
20 25 30

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

Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu
50 55 60

His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val
65 70 75 80

Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys
85 90 95

Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln
100 105 110

Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu
115 120 125

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

Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp
145 150 155 160

His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly
165 170 175

Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr
180 185 190

Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile
195 200 205

Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro
210 215 220

Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln
225 230 235 240

Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn
245 250 255

Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn
260 265 270

Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 921
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 921
gagggcaggg gaagtcttct aacatgcggg gacgtggagg aaaatcccgg gccctga

57

<210> 922
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 922
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 923
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 923
gccacc

6

<210> 924
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 924
Ser Gly Gly Gly Ser
1 5

<210> 925
<211> 5
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 925

Gly Ser Gly Pro Arg
1 5

<210> 926

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 926

atgctcgagc aattg

15

<210> 927

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 927

Met Leu Glu Gln Leu
1 5

<210> 928

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 928

ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60

acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccg 120

gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcacag aggctgggaa 180

gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240

gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300

gtcgagctcc tgaaactgga g 321

<210> 929

<211> 107

<212> PRT

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 929
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

 Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 930
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 930
 ggcgggcaat tg

12

<210> 931
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 931
 Gly Gly Gln Leu
 1

<210> 932
 <211> 267
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 932
 gaaatgtggc atgaaggggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
 aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
 ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
 tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
 taccatgtgt tcaggcggat cagtaag 267

<210> 933
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 933
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15

 Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30

 Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45

 Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60

 Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80

 Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 934
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 934
 tcaggcgggtg gctcaggtcc atgg 24

<210> 935
 <211> 8
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 935

Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 936

<211> 858

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 936

ggatttggtg atgtcggtag tcttgagagt ttgaggggaa atgcagattt ggcttacatc	60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag	120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgag gcgtcgcttc	180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcggtaga gaagattgtg aacatcttca atgggaccag ctgccccagc	420
ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt	600
ttgcccacac ccagtacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg	660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 937

<211> 286

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 937

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

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30
 Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45
 Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60
 Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80
 Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95
 Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110
 Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu Lys
 115 120 125
 Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys
 130 135 140
 Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160
 Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175
 Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190
 Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205
 Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220
 Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240
 Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255
 Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270
 Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 938

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 938
ggatctggac cgcgg

15

<210> 939
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 939
Gly Ser Gly Pro Arg
1 5

<210> 940
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 940
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 941
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 941
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 942
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 942
ccatgg

6

<210> 943
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 943
Pro Trp
1

<210> 944
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 944
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
agg

60

63

<210> 945
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 945
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 946
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 946
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc

60

atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggct tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 947
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 947
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 85 90 95

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

<210> 948
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 948
 ggcggaggaa gcggaggtgg gggc 24

<210> 949
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 949
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 950
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 950
 gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
 acatgcactg ttcaggggt ctcattacc gactatggtg taagctggat tcgccagcct 120
 ccacgaaagg gtctggagtg gctgggagta atatggggta gtgaaaccac atactataat 180
 tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
 aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgcca acattattac 300
 tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 951
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 951
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 952
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 952
ggatcc

6

<210> 953
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 953
Gly Ser
1

<210> 954
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 954
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 955
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 955
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 956
<211> 126
<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 956

cccgcccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60

cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120

tgcgac 126

<210> 957

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 957

Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 958

<211> 111

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 958

atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60

actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 959

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 959

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 960
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 960
gtcgac

6

<210> 961
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 961
Val Asp
1

<210> 962
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 962
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc cttaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 963
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 963

Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 964

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 964

ggaacgcgtg gatcggga

18

<210> 965

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 965

Gly Thr Arg Gly Ser Gly
1 5

<210> 966

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 966
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 967
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 967
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 968
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 968
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 969
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 969
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30
 Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45
 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60
 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95
 Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110
 Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125
 Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140
 Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160
 Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 970
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 970
 gtcgag

6

<210> 971
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 971
 Val Glu
 1

<210> 972
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 972
aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 973
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 973
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15
Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30
Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45
Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 974
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 974
gtcgag 6

<210> 975
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 975
Val Glu
1

<210> 976
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 976
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 977
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 977
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 978
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 978
 gtcgag

6

<210> 979
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 979
 Val Glu
 1

<210> 980
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 980	
ggagtgcagg tggagactat ctccccagga gacgggcgca ccttcccca ggcgcggccag	60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccg	120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa	180
gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat	240
gcctatggtg cactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat	300
gtggagcttc taaaactgga a	321

<210> 981
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 981
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 982
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 982
tga 3

<210> 983
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 983
atgctcgagc aattg 15

<210> 984
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 984
Met Leu Glu Gln Leu
1 5

<210> 985
<211> 321

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 985
ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcatcag aggctgggaa 180
gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 986
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 986
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 987
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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oligonucleotide"

<400> 987
ggcgggcaat tg

12

<210> 988
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 988
Gly Gly Gln Leu
1

<210> 989
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 989
gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcatgt ttgaggttct tgaacctctg cacgccatga tggaacgggg accgcagaca 120
ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
taccatgtgt tcaggcggat cagtaag 267

<210> 990
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 990
Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
85

<210> 991
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 991
tcaggcgggtg gctcaggtcc atgg

24

<210> 992
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 992
Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 993
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 993
ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctggggaggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt 600

ttgccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg 660
 agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtcctctctg cttagggtcg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
 acatcagcta gcagagcc 858

<210> 994
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 994
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 995
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 995
ggatctggac cgcgg

15

<210> 996
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 996
Gly Ser Gly Pro Arg
1 5

<210> 997
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 997
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 998

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

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 998
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 999
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 999
 ccatgg

6

<210> 1000
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1000
 Pro Trp
 1

<210> 1001
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1001
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
 agg

60

63

<210> 1002
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1002
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1003
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1003
 gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
 atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
 aaggcccaaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
 ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
 gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
 acaaaggtgg agataaaa 318

<210> 1004
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1004
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
 20 25 30

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

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

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

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Gly Ser Ser Pro Phe Thr
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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 1005
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1005
 ggcggaggaa gcggaggtgg gggc

24

<210> 1006
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1006
 Gly Gly Gly ser Gly Gly Gly Gly
 1 5

<210> 1007
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1007
 gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
 tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
 ccaggcaaag ggctcgaatg ggtggccttg attgaccctg agaatggtga cactgagttt 180
 gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
 ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
 ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 1008
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1008
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Trp Ile Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Ala Thr Met Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 1009
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1009
 ggatcc

6

<210> 1010
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1010
 Gly Ser
 1

<210> 1011
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1011
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 1012
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1012
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1013
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1013
cccgcccaaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 1014
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1014
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1015
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1015
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1016
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1016
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1017
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1017
gtcgac 6

<210> 1018
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1018
Val Asp
1

<210> 1019
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1019
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggagggggca agggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctctttcca cctcgt 336

<210> 1020
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1020
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15
Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30
Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45
Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60
Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80
Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95
Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1021
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1021
ggaacgcgtg gatcggga 18

<210> 1022
<211> 6

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1022
Gly Thr Arg Gly Ser Gly
1 5

<210> 1023
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1023
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 1024
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1024
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1025
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1025
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcaggga 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360

cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1026
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1026
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15
Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30
Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45
Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60
Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80
Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95
Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110
Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125
Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140
Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160
Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1027
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1027
gtcgag

6

<210> 1028
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1028
val glu
1

<210> 1029
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1029
aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1030
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1030
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1031
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1031
gtcgag

6

<210> 1032
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1032
Val Glu
1

<210> 1033
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1033
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gagggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgttg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1034
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1034
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
Page 422

20

25

30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1035
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1035
 gtcgag

6

<210> 1036
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1036
 Val Glu
 1

<210> 1037
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1037
 ggagtgcagg tggagactat ctccccagga gacgggacga ccttcccaa gcgcggccag 60
 acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttctctccgg 120
 gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180

gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1038
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1038
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1039
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1039
tga 3

<210> 1040
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1040
atgctcgag

9

<210> 1041
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1041
Met Leu Glu
1

<210> 1042
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1042
gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
taccatgtgt tcaggcggat cagtaag 267

<210> 1043
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1043
Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15
Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30
Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
35 40 45
Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
85

<210> 1044
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1044
tcaggcgggtg gctcaggt 18

<210> 1045
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1045
Ser Gly Gly Gly Ser Gly
1 5

<210> 1046
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1046
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtg gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctc 318

<210> 1047
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polypeptide"

<400> 1047
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu
100 105

<210> 1048
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1048
tcggggggcg gatcaggagt cgac

24

<210> 1049
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1049
Ser Gly Gly Gly Ser Val Asp
1 5

<210> 1050
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1050
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcg gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctggggaggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttctctg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctga gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1051
<211> 286
<212> PRT
<213> Artificial Sequence
<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1051
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15
Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30
Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45
Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60
Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80
Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
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100	105	110
Pro Gly Ala Val Tyr Gly Thr	Asp Gly Cys Pro Val	Ser Val Glu Lys
115	120	125
Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys		
130	135	140
Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His		
145	150	155
Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser		
165	170	175
Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe		
180	185	190
Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe		
195	200	205
Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys		
210	215	220
Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp		
225	230	235
Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala		
245	250	255
Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe		
260	265	270
Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala		
275	280	285

<210> 1052
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1052
 ccgcgg

6

<210> 1053
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 1053

Pro Arg

1

<210> 1054

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1054

gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1055

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1055

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1056

<211> 999

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1056

atgccaccac	ctgcctgct	gttctttctg	ctgttcctga	cacctatgga	ggtgcgacct	60
gaggaaccac	tggtcgtgaa	ggtcgaggaa	ggcgacaatg	ccgtgctgca	gtgcctgaaa	120
ggcacttctg	atgggccaac	tcagcagctg	acctggtcca	gggagtctcc	cctgaagcct	180
tttctgaaac	tgagcctggg	actgccagga	ctgggaatcc	acatgcgccc	tctggctatc	240
tggctgttca	tcttcaacgt	gagccagcag	atgggaggat	tctacctgtg	ccagccagga	300
ccaccatccg	agaaggcctg	gcagcctgga	tggaccgtca	acgtggaggg	gtctggagaa	360
ctgtttaggt	ggaatgtgag	tgacctggga	ggactgggat	gtgggctgaa	gaaccgctcc	420
tctgaaggcc	caagttcacc	ctcaggggaag	ctgatgagcc	caaaactgta	cgtgtggggc	480
aaagatcggc	ccgagatctg	ggagggagaa	cctccatgcc	tgccacctag	agacagcctg	540

aatcagagtc tgtcacagga tctgacaatg gcccccggt ccactctgtg gctgtcttgt 600
ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcacctaag 660
gggcaaaaa gtctgctgtc actggaactg aaggacgac ggctgccag agacatgtgg 720
gtcatggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
tgccaccggg gcaatctgac aatgtccttc catctggaga tcaactgcaag gccctgctg 840
tggcactggc tgctgcgaac cggaggatgg aaggtcagt ctgtgacact ggcatactctg 900
atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg 960
agaaagagaa agagaatgac tgaccaaca agaaggttt 999

<210> 1057
<211> 333
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1057
Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
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165 170 175
 Arg Asp Ser Leu₁₈₀ Asn Gln Ser Leu Ser₁₈₅ Gln Asp Leu Thr Met₁₉₀ Ala Pro
 Gly Ser Thr₁₉₅ Leu Trp Leu Ser Cys₂₀₀ Gly Val Pro Pro Asp₂₀₅ Ser Val Ser
 Arg Gly₂₁₀ Pro Leu Ser Trp Thr₂₁₅ His Val His Pro Lys₂₂₀ Gly Pro Lys Ser
 Leu₂₂₅ Leu Ser Leu Glu₂₃₀ Leu Lys Asp Asp Arg Pro₂₃₅ Ala Arg Asp Met₂₄₀ Trp
 Val Met Glu Thr Gly₂₄₅ Leu Leu Leu Pro Arg₂₅₀ Ala Thr Ala Gln Asp₂₅₅ Ala
 Gly Lys Tyr Tyr₂₆₀ Cys His Arg Gly Asn₂₆₅ Leu Thr Met Ser Phe₂₇₀ His Leu
 Glu Ile Thr₂₇₅ Ala Arg Pro Val Leu₂₈₀ Trp His Trp Leu Leu₂₈₅ Arg Thr Gly
 Gly Trp₂₉₀ Lys Val Ser Ala Val₂₉₅ Thr Leu Ala Tyr Leu₃₀₀ Ile Phe Cys Leu
 Cys₃₀₅ Ser Leu Val Gly Ile₃₁₀ Leu His Leu Gln Arg₃₁₅ Ala Leu Val Leu Arg₃₂₀
 Arg Lys Arg Lys Arg₃₂₅ Met Thr Asp Pro Thr₃₃₀ Arg Arg Phe

<210> 1058
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1058
 tga

3

<210> 1059
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1059
 atgctcgag

9

<210> 1060
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1060
Met Leu Glu
1

<210> 1061
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1061
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctc 318

<210> 1062
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1062
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
Page 433

65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1066

Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
85

<210> 1067

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1067

tcaggcgggtg gctcaggtgt cgac

24

<210> 1068

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1068

Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 1069

<211> 858

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1069

ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc

60

ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctggggagga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagaccat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcttgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtcctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1070
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1070
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 1071
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1071
ccgcgg

6

<210> 1072
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1072

Pro Arg
1

<210> 1073
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1073
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1074
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1074
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1075
<211> 999
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1075
atgccaccac ctgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct 60
gaggaaccac tggctctgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
ggcacttctg atgggccaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct 180
tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240
tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
ctgtttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
tctgaaggcc caagttcacc ctcaggggaag ctgatgagcc caaaactgta cgtgtgggcc 480
aaagatcggc ccgagatctg ggagggagaa cctccatgcc tgccacctag agacagcctg 540
aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatacctaag 660

gggccaaaaa gtctgctgtc actggaactg aaggacgata ggctgccag agacatgtgg 720
 gtcattggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
 tgccaccggg gcaatctgac aatgtccttc catctggaga tctactgcaag gcccgctgtg 840
 tggcactggc tgctgcgaac cggaggatgg aaggctcagt ctgtgacact ggcataatctg 900
 atctttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg 960
 agaaagagaa agagaatgac tgaccaaca agaaggttt 999

<210> 1076
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1076
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
 130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
 145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
 165 170 175

Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
180 185 190

Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
195 200 205

Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
210 215 220

Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
225 230 235 240

Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
245 250 255

Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
260 265 270

Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
275 280 285

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
325 330

<210> 1077
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1077
tga 3

<210> 1078
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1078
atgctcgagc aattg 15

<210> 1079

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1079
Met Leu Glu Gln Leu
1 5

<210> 1080
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1080
ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcacag aggctgggaa 180
gaaggcgctg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1081
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1081
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1082
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1082
ggcgggcaat tg 12

<210> 1083
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1083
Gly Gly Gln Leu
1

<210> 1084
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1084
gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
tgtagaaagt atatgaaatc cggtaacgtg aaagacctgc ttcaggcctg ggacctttat 240
taccatgtgt tcaggcggat cagtaag 267

<210> 1085
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1085
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15
 Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30
 Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45
 Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60
 Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr
 65 70 75 80
 Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1086
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1086
 tcaggcgggtg gctcaggtcc atgg

24

<210> 1087
 <211> 8
 <212> PRT
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1087
 Ser Gly Gly Gly Ser Gly Pro Trp
 1 5

<210> 1088
 <211> 858
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1088
 ggatttggtg atgtcggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc
 ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag

60

120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agcccaagct ctttttcata caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttcttgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctga gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1089

<211> 286

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1089

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

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys
 130 135 140
 Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160
 Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175
 Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190
 Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205
 Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220
 Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240
 Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255
 Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270
 Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 1090
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1090
 ggatctggac cgcg

15

<210> 1091
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1091
 Gly Ser Gly Pro Arg
 1 5

<210> 1092
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1092
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1093
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1093
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1094
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1094
ccatgg

6

<210> 1095
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1095
Pro Trp
1

<210> 1096
<211> 63
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"
 <400> 1096
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaaggggtgt ccagtgtagc 60
 agg 63

<210> 1097
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1097
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1098
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"
 <400> 1098
 gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
 atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
 aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
 ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
 gatttcgcaa cctattactg tcagcaatgg ggggccagcc cattcacttt cggccaagga 300
 acaaaggtgg agataaaa 318

<210> 1099
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"
 <400> 1099
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
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20

25

30

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

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

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

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

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

<210> 1100
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1100
 ggcggaggaa gcggaggtgg gggc

24

<210> 1101
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1101
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 1102
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1102
 gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
 tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
 ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180

gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
 ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
 ttctggggcc aggggaactct ggtgacagtt agttcc 336

<210> 1103
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1103
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 1104
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1104
 ggatcc 6

<210> 1105
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1105
Gly Ser
1

<210> 1106
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1106
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1107
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1107
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1108
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1108
cccgcccaac gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct
tgcgac

60

120

126

<210> 1109
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1109
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
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20

25

30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1110
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1110
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1111
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1111
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

Cys Lys Cys Pro Arg
 35

<210> 1112
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1112
 gtcgac 6

<210> 1113
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1113
Val Asp
1

<210> 1114
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1114
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1115
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1115
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15
Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30
Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45
Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60
Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80
Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95
Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1116
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1116
ggaacgcgtg gatcggga

18

<210> 1117
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1117
Gly Thr Arg Gly Ser Gly
1 5

<210> 1118
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1118
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct

57

<210> 1119
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1119
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1120
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1120
atggctgcag gaggtcccg cgcggggtct gcggccccg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 1121
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1121
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1122
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1122
 gtcgag

6

<210> 1123
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1123
 val Glu
 1

<210> 1124
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1124
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 1125
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1125

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

<210> 1126
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1126
 gtcgag

6

<210> 1127
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1127
 Val Glu
 1

<210> 1128
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1128
 ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtt gaggcaggca aaaaggtgga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgttg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccgggaatt attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 1129
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1129
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1130
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1130
gtcgag

6

<210> 1131
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1131
Val Glu
1

<210> 1132

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1132
ggagtgcagg tggagactat ctccccagga gacgggcgca ctttcccaa gcgcggccag 60
acctgctggtg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1133
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1133
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro 15
1 5 10
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp 30
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe 45
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala 60
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr 80
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr 95
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu 105
100 105

<210> 1134
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1134
tga 3

<210> 1135
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1135
atgctcgagc aattg 15

<210> 1136
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1136
Met Leu Glu Gln Leu
1 5

<210> 1137
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1137
ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcacag aggctgggaa 180
gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1138
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1138
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1139
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1139
 ggcgggcaat tg

12

<210> 1140
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1140
 Gly Gly Gln Leu
 1

<210> 1141
 <211> 267
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1141
gaaatgtggc atgaaggggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcatgt ttgaggttct tgaacctctg cacgccatga tggaacgggg accgcagaca 120
ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
taccatgtgt tcaggcggat cagtaag 267

<210> 1142
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1142
Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
85

<210> 1143
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1143
tcaggcgggtg gctcaggtcc atgg 24

<210> 1144
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
Page 461

peptide"

<400> 1144
Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 1145
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1145
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt caattcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1146
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1146
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
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35

40

45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Gln Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 1147

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1147
ggatctggac cgcg

15

<210> 1148
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1148
Gly Ser Gly Pro Arg
1 5

<210> 1149
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1149
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1150
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1150
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1151
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1151
ccatgg

6

<210> 1152
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1152
Pro Trp
1

<210> 1153
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1153
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 1154
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1154
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1155
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1155
gacatccaac tgacgcaaag cccatctaca ctacgcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240

gatttcgcaa cctattactg tcagcaatgg ggggtccagcc cattcacttt cggccaagga 300
 acaaagggtgg agataaaa 318

<210> 1156
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1156
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
 20 25 30

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

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

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

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

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

<210> 1157
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1157
 ggcggaggaa gcggaggtgg gggc 24

<210> 1158
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1158
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1159
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1159
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgtgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc aggaactct ggtgacagtt agttcc 336

<210> 1160
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1160
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1161

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1161
ggatcc

6

<210> 1162
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1162
Gly Ser
1

<210> 1163
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1163
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1164
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1164
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1165
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1165
cccgcccaaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga

60

cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1166
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1166
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1167
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1167
 atctatatct gggcacctct cgctggcacc tgtggagtc tctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1168
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1168
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

Cys Lys Cys Pro Arg
 35

<210> 1169

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1169
gtcgac

6

<210> 1170
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1170
Val Asp
1

<210> 1171
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1171
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctgaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctctttcca cctcgt 336

<210> 1172
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1172
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1173
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1173
 ggaacgcgtg gatcgga

18

<210> 1174
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1174
 Gly Thr Arg Gly Ser Gly
 1 5

<210> 1175
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1175
 gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct

57

<210> 1176
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1176
 Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
 1 5 10 15

Pro Gly Pro

<210> 1177
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1177
 atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcggggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 1178
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1178
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
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50

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Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1179
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1179
gtcgag

6

<210> 1180
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1180
Val Glu
1

<210> 1181
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1181
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctgggtcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 1182
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1182
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 1183
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1183
 gtcgag 6

<210> 1184
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1184
 Val Glu
 1

<210> 1185
 <211> 321

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1185
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaagtgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1186
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1186
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1187
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
Page 475

oligonucleotide"

<400> 1187
gtcgag

6

<210> 1188
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1188
val Glu
1

<210> 1189
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1189
ggagtgcagg tggagactat ctccccagga gacgggacga ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggtt cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1190
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1190
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

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

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1191
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1191
 tga 3

<210> 1192
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1192
 atgctcgagc aattg 15

<210> 1193
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1193
 Met Leu Glu Gln Leu
 1 5

<210> 1194
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1194

ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgctggg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcatcag aggctgggaa 180
gaaggcgtcg cccagatgtc cgtggggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1195
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1195
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1196
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1196
ggcgggcaat tg 12

<210> 1197
<211> 4
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1197

Gly Gly Gln Leu

1

<210> 1198

<211> 267

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1198

gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60

aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120

ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180

tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240

taccatgtgt tcaggcggat cagtaag 267

<210> 1199

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1199

Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
85

<210> 1200
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1200
tcaggcgggtg gctcaggtcc atgg

24

<210> 1201
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1201
Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 1202
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1202
ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcg gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtccctcctg cttaggggtcg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt caattcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1203
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1203
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Gln Phe
 260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 1204
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1204
 ggatctggac cgcgg

15

<210> 1205
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1205
 Gly Ser Gly Pro Arg
 1 5

<210> 1206
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1206
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1207
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1207
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1208
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1208
 ccatgg

6

<210> 1209
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1209
 Pro Trp
 1

<210> 1210
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1210
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
 agg

60

63

<210> 1211
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1211
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1212
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1212
gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgtagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccaaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
gatttcgcaa cctattactg tcagcaatgg ggtccagcc cattcacttt cggccaagga 300
acaaagggtg agataaaa 318

<210> 1213
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1213
Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 1214
<211> 24

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1214
ggcggaggaa gcggaggtgg gggc

24

<210> 1215
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1215
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1216
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1216
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc aggaactct ggtgacagtt agttcc 336

<210> 1217
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1217
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1218
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1218
ggatcc

6

<210> 1219
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1219
Gly Ser
1

<210> 1220
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1220
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1221
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1221
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1222
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1222
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1223
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1223
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1224
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1224
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1225
 <211> 37

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1225
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1226
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1226
gtcgac

6

<210> 1227
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1227
Val Asp
1

<210> 1228
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1228
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240

cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1229
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1229
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1230
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1230
 ggaacgcgtg gatcggga 18

<210> 1231
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1231

Gly Thr Arg Gly Ser Gly
1 5

<210> 1232
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1232
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 1233
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1233
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1234
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1234
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1235
<211> 172

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1235
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1236
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1236
gtcgag

6

<210> 1237
<211> 2

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1237
Val Glu
1

<210> 1238
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1238
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1239
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1239
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1240
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1240
gtcgag

6

<210> 1241
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1241
val Glu
1

<210> 1242
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1242
ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttccccaa gcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggtg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1243
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1243
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1244
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1244
tga 3

<210> 1245
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1245
atgctcgagc aattg 15

<210> 1246
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1246
Met Leu Glu Gln Leu
1 5

<210> 1247
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1247
ggcgtgcaag tggaaactat aagcccgga gacggccgca catttcccaa gagaggccag 60

acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcacag aggctgggaa 180
gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1248
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1248
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1249
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1249
ggcgggcaat tg 12

<210> 1250
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1250
 Gly Gly Gln Leu
 1

<210> 1251
 <211> 267
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1251
 gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
 aagggcatgt ttgaggttct tgaacctctg cacgccatga tggaacgggg accgcagaca 120
 ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
 tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
 taccatgtgt tcaggcggat cagtaag 267

<210> 1252
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1252
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1253

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

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1253
 tcaggcgggtg gctcaggtcc atgg

24

<210> 1254
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1254
 Ser Gly Gly Gly Ser Gly Pro Trp
 1 5

<210> 1255
 <211> 858
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1255
 ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
 ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
 tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
 tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
 gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
 ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
 ggatgccctg tgtcgggtcg gaagattgtg aacatcttca atgggaccag ctgccccagc 420
 ctgggaggga agcccaagct ctttttcata caggcctgtg gtggggagca gaaagatcat 480
 gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
 gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
 ttgccacac ccagtacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg 660
 agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtg 720
 gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt caattcctcc ggaaaaaact tttctttaaa 840
 acatcagcta gcagagcc 858

<210> 1256
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1256
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
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225		230		235		240
Ala	His	Ser	Glu	Asp	Leu	Gln
				245	Ser	Leu
					250	Leu
					Arg	Val
					Ala	Asn
						255
Val	Ser	Val	Lys	Gly	Ile	Tyr
			260			
					Lys	Gln
					265	Met
					Pro	Gly
					Cys	Phe
						270
Leu	Arg	Lys	Lys	Leu	Phe	Phe
		275				
					Lys	Thr
					280	Ser
					Ala	Ser
					Arg	Ala
					285	

<210> 1257
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1257
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15

<210> 1258
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1258
 Gly Ser Gly Pro Arg
 1 5

<210> 1259
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1259
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1260
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1260

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1261
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1261
 ccatgg

6

<210> 1262
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1262
 Pro Trp
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<210> 1263
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1263
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
 agg

60

63

<210> 1264
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1264
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg

<210> 1265
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1265
 gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
 atcacgtgct ctgcctcaag ttccgtagg tttatccatt ggtatcagca gaaacctgga 120
 aaggccccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
 ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
 gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
 acaaaggtgg agataaaa 318

<210> 1266
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1266
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
 20 25 30
 His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile Tyr
 35 40 45
 Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu
 65 70 75 80
 Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Gly Ser Ser Pro Phe Thr
 85 90 95
 Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 1267
 <211> 24
 <212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1267

ggcggaggaa gcggaggtgg gggc

24

<210> 1268

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1268

Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1269

<211> 336

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1269

gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60

tcctgcgctg cctctggctt taacattaata gactactaca tacattgggt gcggcaggcc 120

ccaggcaaag ggctcgaatg ggtggccttg attgaccctg agaatgggtga cactgagttt 180

gtccccaagt ttcagggcag agccaccatg agcgtgaca caagcaaaaa cactgcttat 240

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ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 1270

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1270

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1271
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1271
ggatcc

6

<210> 1272
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1272
Gly Ser
1

<210> 1273
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1273
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1274
<211> 16
<212> PRT
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1274
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1275
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1275
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1276
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1276
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1277
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1277
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1278
 <211> 37
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1278

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1279

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1279

gtcgac

6

<210> 1280

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1280

Val Asp

1

<210> 1281

<211> 336

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1281

agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60

tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120

cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180

gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240

cggagggggca agggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300

tacgacgccc ttcacatgca agctcttcca cctcgt

336

<210> 1282
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1282
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1283
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1283
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct

57

<210> 1284
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1284
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn

Pro Gly Pro

<210> 1285

<211> 516

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1285

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atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt      60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg      120
acacaggtgg cggccgactg gaccgcgtg gcggaggaga tggactttga gtacttggag      180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcaggga      240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac      300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag      360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg      420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt      480
ttcgatgcct tcatctgcta ttgccccagc gacatc      516
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<210> 1286

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1286

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Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1           5           10           15
```

```
Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
          20          25          30
```

```
Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
          35          40          45
```

```
Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
          50          55          60
```

```
Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65          70          75          80
```

```
Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
```

85

90

95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1287
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1287
 gtcgag

6

<210> 1288
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1288
 Val Glu
 1

<210> 1289
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1289
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180

<210> 1290
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1290
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 1291
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1291
 tga

3

<210> 1292
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1292
 atgctcgagc aattg

15

<210> 1293
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1293

Met Leu Glu Gln Leu
1 5

<210> 1294
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1294
ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcatcag aggctgggaa 180
gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1295
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1295
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1296
<211> 12

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1296
ggcgggcaat tg

12

<210> 1297
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1297
Gly Gly Gln Leu
1

<210> 1298
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1298
gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcatgt ttgaggttct tgaacctctg cacgccatga tggaacgggg accgcagaca 120
ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
taccatgtgt tcaggcggat cagtaag 267

<210> 1299
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1299
Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
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35

40

45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1300
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1300
 tcaggcgggtg gctcaggtcc atgg

24

<210> 1301
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1301
 Ser Gly Gly Gly Ser Gly Pro Trp
 1 5

<210> 1302
 <211> 858
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1302
 ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
 ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120
 tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
 tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
 gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
 ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
 ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420

ctgggagggga agcccaagct ctttttcac caggcctgtg gtggggagca gaaagatcat 480
 gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
 gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt 600
 ttgcccacac ccagtacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg 660
 agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
 acatcagcta gcagagcc 858

<210> 1303
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1303
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
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170

175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 1304
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1304
 ggatctggac cgcgg

15

<210> 1305
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1305
 Gly Ser Gly Pro Arg
 1 5

<210> 1306
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1306
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1307
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1307
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1308
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1308
ccatgg 6

<210> 1309
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1309
Pro Trp
1

<210> 1310
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1310
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 1311
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1311
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1312
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1312
gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
acaaaggtagg agataaaa 318

<210> 1313
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1313
Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 1314
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1314
ggcggaggaa gcggaggtgg gggc

24

<210> 1315
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1315
Gly Gly Gly ser Gly Gly Gly Gly
1 5

<210> 1316
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1316
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggccttg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc aggggaactct ggtgacagtt agttcc 336

<210> 1317
<211> 112
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1317

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1318

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1318

ggatcc

6

<210> 1319

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1319

Gly Ser

1

<210> 1320

<211> 48

<212> DNA

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1320
 gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1321
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1321
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1322
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1322
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1323
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1323
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1324
 <211> 111
 <212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1324

atctatatct gggcacctct cgctggcacc tgtggagtc tctgtctcag cctgggtatt 60

actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1325

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1325

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1326

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1326

gtcgac 6

<210> 1327

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1327

Val Asp

1

<210> 1328

<211> 336

<212> DNA

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1328
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1329
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1329
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1330
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1330
ggaacgcgtg gatcggga 18

<210> 1331
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1331
Gly Thr Arg Gly Ser Gly
1 5

<210> 1332
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1332
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 1333
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1333
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1334
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1334
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180

atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 1335
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1335
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1336

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1336
gtcgag

6

<210> 1337
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1337
Val Glu
1

<210> 1338
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1338
aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1339
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1339
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1340
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1340
gtcgag

6

<210> 1341
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1341
Val Glu
1

<210> 1342
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1342
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgttg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1343
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1343
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15
 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30
 Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45
 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60
 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80
 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95
 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1344
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1344
 gtcgag

6

<210> 1345
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1345
 Val Glu
 1

<210> 1346
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1346

ggagtgcagg tggagactat ctccccagga gacgggcgca ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaatttga ttcctcccg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaaggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1347
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1347
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1348
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1348
tga

3

<210> 1349
<211> 516
<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1349

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atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt      60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg      120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag      180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg      240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac      300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag      360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg      420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt      480
ttcgatgcct tcattctgcta ttgccccagc gacatc                                516
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<210> 1350

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1350

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Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1          5          10
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```
Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
          20          25          30
```

```
Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
          35          40          45
```

```
Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
          50          55          60
```

```
Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65          70          75          80
```

```
Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
          85          90          95
```

```
Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
          100          105          110
```

```
Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
          115          120          125
```


Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1351
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1351
gtcgag 6

<210> 1352
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1352
Val Glu
1

<210> 1353
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1353
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1354
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1354

Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1355

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1355

ggatctggac cgcg

15

<210> 1356

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1356

Gly Ser Gly Pro Arg
1 5

<210> 1357

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1357

gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1358

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1358
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1359
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1359
 ccacgg

6

<210> 1360
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1360
 Pro Arg
 1

<210> 1361
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1361
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
 agg

60

63

<210> 1362
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1362

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1363
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1363
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctacat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 1364
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1364
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 85 90 95

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

<210> 1365
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1365
 ggcggaggaa gcggaggtgg gggc

24

<210> 1366
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1366
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 1367
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1367	
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgct	60
acatgcactg tctcaggggt ctcattaccg gactatggtg taagctggat tcgccagcct	120
ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat	180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta	240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac	300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca	360

<210> 1368
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1368
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 1369
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1369
ggatcc

6

<210> 1370
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1370
Gly Ser
1

<210> 1371
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1371

gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1372
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1372
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1373
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1373
cccccccaac gacccccac acctgcgcgc accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 1374
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1374
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1375
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1375
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1376
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1376
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1377
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1377
gtcgac 6

<210> 1378
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1378
Val Asp
1

<210> 1379
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1379

agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1380
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1380
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1381
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1381
atggggagta gcaagagcaa gcctaaggac cccagccagc gc 42

<210> 1382
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1382

Met Gly Ser Ser Lys Ser Lys Pro Lys Asp Pro Ser Gln Arg
1 5 10

<210> 1383

<211> 516

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1383

atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 1384

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1384

Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1385
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1385
gtcgag

6

<210> 1386
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1386
Val Glu
1

<210> 1387
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1387
aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag
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60

atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1388
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1388
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1389
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1389
ggatctggac cgcgg 15

<210> 1390
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1390
Gly Ser Gly Pro Arg
1 5

<210> 1391
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

 <400> 1391
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1392
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

 <400> 1392
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1393
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

 <400> 1393
 ccacgg

6

<210> 1394
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

 <400> 1394
 Pro Arg
 1

<210> 1395
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

 <400> 1395
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc

60

<210> 1396
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1396
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1397
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1397
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaaataac a 321

<210> 1398
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1398
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 1399
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1399
ggcggaggaa gcggaggtgg gggc

24

<210> 1400
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1400
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1401
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1401
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcatcacc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctgggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgcca acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 1402
 <211> 120
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1402
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

 Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110

 Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 1403
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1403
 ggatcc

6

<210> 1404
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1404

Gly Ser
1

<210> 1405
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1405
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1406
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1406
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1407
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1407
cccgcccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct
tgcgac

60

120

126

<210> 1408
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1408
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1409
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1409
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1410
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1410
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1411
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1411
gtcgac 6

<210> 1412
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1412

Val Asp
1

<210> 1413
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1413
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gactacgatg ttttgacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1414
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1414
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1415
<211> 63

<212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1415
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
 agg 63

<210> 1416
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1416
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Ser Arg
 20

<210> 1417
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1417
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 1418
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1418
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly

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

<210> 1419
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1419
 ggcggaggaa gcggaggtgg gggc

24

<210> 1420
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1420
 Gly Gly Gly Ser Gly Gly Gly
 1 5

<210> 1421
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1421
 gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc

60

acatgcactg tctcaggggt ctcattaccc gactatgggtg taagctggat tcgccagcct 120
 ccacgaaagg gtctggagtg gctgggagta atatggggta gtgaaaccac atactataat 180
 tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
 aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
 tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 1422
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1422
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 1423
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1423
 ggatcc

6

<210> 1424

<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1424
Gly Ser
1

<210> 1425
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1425
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 1426
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1426
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1427
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1427
cccgcccaaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 1428
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

polypeptide"

<400> 1428

Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1429

<211> 111

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1429

atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60

actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1430

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1430

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1431

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1431

gtcgac

6

<210> 1432

<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1432
Val Asp
1

<210> 1433
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1433
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1434
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1434
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1435
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1435
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 1436
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1436
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1437
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1437
atggctgcag gaggtcccgg gcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 1438
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1438
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1439
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1439
 gtcgag

<210> 1440
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1440
 Val Glu
 1

<210> 1441
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1441
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 1442
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1442
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 1443
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1443
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaaggggtgt ccagtgtagc 60
 agg 63

<210> 1444
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1444
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1445
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1445
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataaac a 321

<210> 1446
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1446
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 1447
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1447
ggcggaggaa gcggaggtgg gggc

24

<210> 1448
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1448
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1449
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1449
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60

acatgcactg tctcaggggt ctcattaccg gactatggtg taagctggat tcgccagcct 120

ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180

tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta	240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac	300
tacggtggtgta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctctctca	360

<210> 1450
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1450
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15
 Ser Leu Ser Val Thr Cys Thr Val Ser Gly Val Ser Leu Pro Asp Tyr
 20 25 30
 Gly Val Ser Trp Ile Arg Gln Pro Pro Arg Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser Ala Leu Lys
 50 55 60
 Ser Arg Leu Thr Ile Ile Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
 65 70 75 80
 Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95
 Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 1451
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1451
 ggatcc 6

<210> 1452
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1452
 Gly Ser
 1

<210> 1453
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1453
 gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1454
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1454
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1455
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1455
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct
 tgcgac

60

120

126

<210> 1456
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial sequence: Synthetic polypeptide"

<400> 1456

Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1457
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1457
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1458
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1458
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1459
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1459
gtcgac 6

<210> 1460
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1460
 Val Asp
 1

<210> 1461
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1461
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctgaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggagggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1462
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1462
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1463
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1463
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 1464
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1464
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1465
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1465
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggttg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 1466

<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1466
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1467
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1467
gtcgag

6

<210> 1468

<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1468
Val Glu
1

<210> 1469
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1469
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1470
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1470
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1471
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

<400> 1471
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaagtgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1472
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1472
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1473
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1473
gtcgag

<210> 1474
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1474
Val Glu
1

<210> 1475
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1475
ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1476
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1476
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1477
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1477
atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcggggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 1478
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1478
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1479
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1479
gtcgag

6

<210> 1480
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1480
Val Glu
1

<210> 1481
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1481
aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120

catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1482
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1482
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1483
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1483
ggatctggac cgcgg 15

<210> 1484
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1484
Gly Ser Gly Pro Arg
1 5

<210> 1485
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 1485
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1486
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1486
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1487
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1487
ccacgg 6

<210> 1488
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1488
Pro Arg
1

<210> 1489
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1489
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 1490
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1490
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1491
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1491
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatattaa attggtatca gcagaaacca 120
gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
gggactaagt tggaaataac a 321

<210> 1492
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1492
Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 1493
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1493
ggcggaggaa gcggaggtgg gggc

24

<210> 1494
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1494
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1495
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1495
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcatcacc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctgggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 1496
<211> 120

<212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1496
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

 Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110

 Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 1497
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1497
 ggatcc

6

<210> 1498
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1498
 Gly Ser
 1

<210> 1499
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1499
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1500
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1500
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1501
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1501
ccccccca gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 1502
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1502
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1503
 <211> 111
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1503
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcacccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1504
 <211> 37
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1504
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

 Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

 Cys Lys Cys Pro Arg
 35

<210> 1505
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1505
 gtcgac 6

<210> 1506
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1506
 Val Asp
 1

<210> 1507
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1507
 agagtgaagt tcagcaggag cgagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
 tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 1508
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1508
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1509
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1509
 atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagga 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1510
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1510
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
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130

135

140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1511
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1511
 gtcgag

6

<210> 1512
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1512
 Val Glu
 1

<210> 1513
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1513
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaatttttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 1514
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1514
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15
 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30
 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45
 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 1515
 <211> 6
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1515
 gtcgag 6

<210> 1516
 <211> 2
 <212> PRT
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1516
 val glu
 1

<210> 1517
 <211> 321
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1517
 ggagtgcagg tggagactat tagccccgga gatggcagaa cattccccaa aagaggacag 60
 acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
 gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctggggag 180
 gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
 gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
 gtggagctgc tgaagctgga a 321

<210> 1518
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1518
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1519
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1519
ggatctggac cgcgg

15

<210> 1520
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1520
Gly Ser Gly Pro Arg
1 5

<210> 1521
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1521
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1522
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1522
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1523
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1523
ccacgg

6

<210> 1524
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1524
Pro Arg
1

<210> 1525
<211> 63
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"
 <400> 1525
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaaggggtg ccagtgtagc 60
 agg 63

<210> 1526
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1526
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1527
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"
 <400> 1527
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatttaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataaac a 321

<210> 1528
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"
 <400> 1528
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Lys Tyr
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20

25

30

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 85 90 95

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

<210> 1529
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1529
 ggcggaggaa gcggaggtgg gggc

24

<210> 1530
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1530
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 1531
 <211> 360
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1531
 gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60

acatgcactg tctcaggggt ctcattaccg gactatggtg taagctggat tcgccagcct 120

ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180

tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
 aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgcca acattattac 300
 tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctctca 360

<210> 1532
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1532
 Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
 1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 1533
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1533
 ggatcc

6

<210> 1534
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1534
 Gly Ser
 1

<210> 1535
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1535
 gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 1536
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1536
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1537
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1537
 cccgccccaa gacccccac acctgcgccc accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1538
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1538
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1542
 Val Asp
 1

<210> 1543
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1543
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1544
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1544
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1545
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1545
 atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1546
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1546
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1547
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1547
gtcgag

6

<210> 1548
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1548
Val Glu
1

<210> 1549
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1549
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1550
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1550
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1551
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1551
gtcgag

6

<210> 1552
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1552
val Glu
1

<210> 1553
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1553
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctac aaggggacaa

60

acatgtgtcg tccattatac aggcattgttg gaggacggca aaaagttcga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaattgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccgggaatt attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 1554
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1554
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1555
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1555
 gtcgag

6

<210> 1556
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1556
 Val Glu
 1

<210> 1557
 <211> 273
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1557
 caattgaaa tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
 aacgtgaagg gcatgtttga gggtcttgaa cctctgcacg ccatgatgga acggggaccg 120
 cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
 gaatggtgta gaaagtatat gaaatccggg aacgtgaaag acctgctcca ggcctgggac 240
 ctttattacc atgtgttcag gcggatcagt aag 273

<210> 1558
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1558
 Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
 1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
 20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
 35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
 50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
 65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
 85 90

<210> 1559
 <211> 9

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1559
ggctcaggt

9

<210> 1560
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1560
Gly Ser Gly
1

<210> 1561
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1561
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1562
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1562
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1563
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1563
ccacgg 6

<210> 1564
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1564
Pro Arg
1

<210> 1565
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1565
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 1566
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1566
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1567
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1567
gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
atcagttgca gggcaagtca ggacattagt aaatatattaa attggtatca gcagaaacca 120
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gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 1568
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1568
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 85 90 95

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

<210> 1569
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1569
 ggcggaggaa gcggaggtgg gggc 24

<210> 1570
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1570
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1571
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1571
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcatatccc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctggggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 1572
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1572
Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala Pro Ser Gln
1 5 10 15

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
Page 597

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 1573
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1573
ggatcc

6

<210> 1574
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1574
Gly Ser
1

<210> 1575
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1575
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1576
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1576
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1577
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1577
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1578
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1578
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15
 Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30
 His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1579
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1579
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1580
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1580
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15
 Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val

Cys Lys Cys Pro Arg
35

<210> 1581
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1581
gtcgac

6

<210> 1582
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1582
Val Asp
1

<210> 1583
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1583
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 1584
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1584
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1585
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1585
 ggttcgga

9

<210> 1586
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1586
 Gly Ser Gly
 1

<210> 1587
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1587
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1588
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1588
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1589
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1589
ggatctgga 9

<210> 1590
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1590
Gly Ser Gly
1

<210> 1591
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1591
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct 57

<210> 1592
<211> 19
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1592

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

Pro Gly Pro

<210> 1593

<211> 516

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1593

atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1594

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1594

Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1595
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1595
gtcgag

6

<210> 1596
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1596
Val Glu
1

<210> 1597
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

<400> 1597
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1598
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1598
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1599
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1599
gtcgag 6

<210> 1600
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1600
Val Glu
1

<210> 1601

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1601
gtcgag

6

<210> 1602
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1602
val glu
1

<210> 1603
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1603
tcaggcgggtg gctcaggtcc gcggtga

27

<210> 1604
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1604
Ser Gly Gly Gly Ser Gly Pro Arg
1 5

<210> 1605
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1605
atgctcgagc aattggag

18

<210> 1606
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1606
Met Leu Glu Gln Leu Glu
1 5

<210> 1607
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1607
ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccaa aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca cccgggatc attccccctc atgctacact ggtcttcgat 300
gtggagctgc tgaagctgga a 321

<210> 1608
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1608
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
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65		70		75		80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr						
		85		90		95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1609
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1609	
tcaggcgggtg gctcaggtgt ggac	24

<210> 1610
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1610
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 1611
 <211> 858
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1611	
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc	60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag	120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgctg gcgtcgcttc	180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcgggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc	420
ctgggagggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540

gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
 ttgcccacac ccagtgacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
 agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
 acatcagcta gcagagcc 858

<210> 1612
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1612
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
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180	185	190
Asp Gln Leu	Asp Ala Ile Ser Ser	Leu Pro Thr Pro Ser Asp Ile Phe
195	200	205
Val Ser Tyr Ser Thr Phe	Pro Gly Phe Val Ser	Trp Arg Asp Pro Lys
210	215	220
Ser Gly Ser Trp Tyr Val	Glu Thr Leu Asp Asp	Ile Phe Glu Gln Trp
225	230	235
Ala His Ser Glu Asp	Leu Gln Ser Leu Leu	Leu Arg Val Ala Asn Ala
245	250	255
Val Ser Val Lys Gly Ile Tyr Lys	Gln Met Pro Gly Cys	Phe Asn Phe
260	265	270
Leu Arg Lys Lys Leu Phe Phe	Lys Thr Ser Ala Ser	Arg Ala
275	280	285

<210> 1613
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1613
 ggatctggac cgcgg

15

<210> 1614
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1614
 Gly Ser Gly Pro Arg
 1 5

<210> 1615
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1615
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1616
 <211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1616
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1617
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1617
 ccacgg

6

<210> 1618
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1618
 Pro Arg
 1

<210> 1619
 <211> 63
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1619
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
 agg

60

63

<210> 1620
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1620
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1621
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1621
 gacatccaga tgacacagac tacatcctcc ctgtctgcct ctctgggaga cagagtcacc 60
 atcagttgca gggcaagtca ggacattagt aaatatattaa attggtatca gcagaaacca 120
 gatggaactg ttaaactcct gatctaccat acatcaagat tacactcagg agtcccatca 180
 aggttcagtg gcagtgggtc tggaacagat tattctctca ccattagcaa cctggagcaa 240
 gaagatattg ccacttactt ttgccaacag ggtaatacgc ttccgtacac gttcggaggg 300
 gggactaagt tggaataac a 321

<210> 1622
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1622
 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly
 1 5 10 15

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

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

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

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

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Tyr
85 90 95

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

<210> 1623
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1623
ggcggaggaa gcggaggtgg gggc

24

<210> 1624
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1624
Gly Gly Gly ser Gly Gly Gly Gly
1 5

<210> 1625
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1625
gaggtgaaac tgcaggagtc aggacctggc ctggtggcgc cctcacagag cctgtccgtc 60
acatgcactg tctcaggggt ctcattaccc gactatggtg taagctggat tcgccagcct 120
ccacgaaagg gtctggagtg gctgggagta atatggggta gtgaaaccac atactataat 180
tcagctctca aatccagact gaccatcatc aaggacaact ccaagagcca agttttctta 240
aaaatgaaca gtctgcaaac tgatgacaca gccatttact actgtgccaa acattattac 300
tacggtggta gctatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360

<210> 1626
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1626

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

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

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

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

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

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

Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Ser Val Thr Val Ser Ser
115 120

<210> 1627

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1627

ggatcc

6

<210> 1628

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1628

Gly Ser

1

<210> 1629

<211> 48

<212> DNA

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1629
 gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1630
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1630
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1631
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1631
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1632
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1632
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1633
 <211> 111
 <212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1633

atctatatct gggcacctct cgctggcacc tgtggagtc tctgtctcag cctgggtatt 60

actctgtact gtaatcacgc gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1634

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1634

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1635

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1635

gtcgac 6

<210> 1636

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1636

Val Asp

1

<210> 1637

<211> 336

<212> DNA

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1637
 agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1638
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1638
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15

 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30

 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45

 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60

 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80

 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95

 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1639
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1639
ggttccgga 9

<210> 1640
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1640
Gly Ser Gly
1

<210> 1641
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1641
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1642
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1642
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1643
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1643
ggatctgga 9

<210> 1644
<211> 3
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1644

Gly Ser Gly

1

<210> 1645

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1645

gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct

57

<210> 1646

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1646

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

Pro Gly Pro

<210> 1647

<211> 516

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1647

atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60

cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120

acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180

atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240

cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300

gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360

cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacg 420

acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1648
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1648
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1649
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 1649
gtcgag

6

<210> 1650
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1650
val Glu
1

<210> 1651
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1651
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1652
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1652
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1653

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1653
gtcgag

6

<210> 1654
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1654
Val Glu
1

<210> 1655
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1655
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgttg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1656
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1656
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1657
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1657
 gtcgag

6

<210> 1658
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1658
 Val Glu
 1

<210> 1659
 <211> 273
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1659	
caattggaaa tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg	60
aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg	120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa	180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac	240

ctttattacc atgtgttcag gcggatcagt aag

273

<210> 1660
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1660
Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 1661
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1661
tcaggcgggtg gctcaggtcc gcggtga

27

<210> 1662
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1662
Ser Gly Gly Gly Ser Gly Pro Arg
1 5

<210> 1663

<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1663
atggctgcag gaggtcccg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggtgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1664
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1664
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
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120

125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1665
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1665
 gtcgag

6

<210> 1666
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1666
 Val Glu
 1

<210> 1667
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1667
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 1668
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1668
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 1669
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1669
 gtcgag

6

<210> 1670
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1670
 Val Glu
 1

<210> 1671
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1671	
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctaa aaggggacaa	60
acatgtgtcg tccattatac aggcattgtt gaggcaggca aaaaggtgga cagtagtaga	120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag	180
gagggcggtgg ctcaaattgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac	240

gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 1672
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1672
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1673
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1673
 gtcgag 6

<210> 1674
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1674
Val Glu
1

<210> 1675
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1675
ggagtgcagg tggagactat ctccccagga gacgggcgca ctttcccaa gcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1676
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1676
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1677

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1677
ccgcgg

6

<210> 1678
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1678
Pro Arg
1

<210> 1679
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1679
gagggcagag gcagcctcct gacatgtggg gacgtcgagg agaaccctgg ccca

54

<210> 1680
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1680
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1681
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

oligonucleotide"

<400> 1681
ccttgg

6

<210> 1682
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1682
Pro Trp
1

<210> 1683
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1683
atggagttcg gattgagctg gctgttcctg gtggcaatac tcaagggcgt tcaatgttca 60
cgg 63

<210> 1684
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1684
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1685
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1685
gaaattgtgc tgactcagag cccgggtagc ctggccgtgt ccccgaggaga gcgagtgacc 60

atgagctgta aatccagcca atcagttttt ttttcatcat ctcaaaaaaa ctatctggca 120
 tggtagcaac agatacccg gtagtcccca cggctgctga tttactgggc atcaacacgc 180
 gagagcgggtg tgcccagacg attcaccgga agcgggagcg gcacggactt cacacttacc 240
 atctcaagcg tacaaccgga ggacttggct atctattact gccaccaata tctttcctcc 300
 agaacattcg gacaggggaac gaaactggag atcaaaaga 339

<210> 1686
 <211> 113
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1686
 Glu Ile Val Leu Thr Gln Ser Pro Gly Ser Leu Ala Val Ser Pro Gly
 1 5 10 15

Glu Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser
 20 25 30

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

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

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

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

Tyr Leu Ser Ser Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110

Arg

<210> 1687
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1687
 ggcggcggga gtgggggagg aggt 24

<210> 1688

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1688
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1689
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1689
caggtg

6

<210> 1690
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1690
Gln Val
1

<210> 1691
<211> 354
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1691
caggtgcagc tgcagcagcc tggagccgag gtggtgaagc ccggcgcac tgtgaaaatg 60
tcttgcaagg caagcggata tacatttact agctactaca tccattggat caagcaaacc 120
cccggacagg gcctcgaatg ggtgggagtt atttaccgg ggaacgatga tatctcttat 180
aatcagaaat tccaaggga agccaccctg actgcagaca aatcaagtac cacagcctat 240
atgcagctca gtccttgac aagcgaggat tccgctgtgt actactgtgc cagggagggtt 300
agacttcgat attttgatgt ttgggggagc ggaactaccg tgaccgtgag cagc 354

<210> 1692
<211> 118

<212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1692
 Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala
 1 5 10 15

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

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

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

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

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

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

 Thr Val Thr Val Ser Ser
 115

<210> 1693
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1693
 ggctcc

6

<210> 1694
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1694
 Gly Ser
 1

<210> 1695
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1695
gagctgccaa cccaggaac tttttcaaat gtatcaacta acgtctca

48

<210> 1696
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1696
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1697
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1697
cccgcgccac gaccaccaac accagcccca accattgcat cccagccttt gtctctccgg 60
cccgaggctt gtcgccccgc cgccgggggt gccgtccata cccgaggcct ggacttcgcc 120
tgcgat 126

<210> 1698
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1698
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1699
 <211> 111
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1699
 atatatatatt gggctcctct ggccggtacc tgcggcgtag tgctcctgtc actggtataa 60
 accctgtatt gcaatcacag gaacagaagg agagtctgta agtgcccccg c 111

<210> 1700
 <211> 37
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1700
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

 Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30

 Cys Lys Cys Pro Arg
 35

<210> 1701
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1701
 gtcgac 6

<210> 1702
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1702
 Val Asp
 1

<210> 1703
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1703
 agagtgaagt tcagcaggag cgagacgcc cccgcgtacc agcagggcca gaaccagctc 60
 tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc 120
 cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
 gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
 cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
 tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 1704
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1704
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1705
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1705
 tga

3

<210> 1706
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1706
 atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcggggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1707
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1707
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15
 Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30
 Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45
 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60
 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1708
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1708
gtcgag

6

<210> 1709
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1709
Val Glu
1

<210> 1710
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1710
aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120

catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1711
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1711
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1712
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1712
gtcgag 6

<210> 1713
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1713
Val Glu
1

<210> 1714
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
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polynucleotide"

<400> 1714
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaagtgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1715
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1715
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1716
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1716
gtcgag

<210> 1717
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1717
Val Glu
1

<210> 1718
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1718
ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtgggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1719
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1719
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1720
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1720
ccgcgg

6

<210> 1721
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1721
Pro Arg
1

<210> 1722
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1722
gagggcagag gcagcctcct gacatgtggg gacgtcgagg agaaccctgg ccca

54

<210> 1723
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1723
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1724
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1724
ccttgg

6

<210> 1725
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1725
Pro Trp
1

<210> 1726
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1726
atggagttcg gattgagctg gctgttcctg gtggcaatac tcaagggcgt tcaatgttca
cgg

60

63

<210> 1727
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1727
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1728
<211> 348
<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1728

cagatccaac tgggtgcagtc aggcccgga ctgaagaagc caggggagac agtcaaaata 60
agttgtaaag ccagcggcta catatttact aattacggga tgaattgggt gaagcaagcg 120
ccgggcaa at cctttaaatg gatgggggtg ataaacacat acacaggaga gtcaacgtac 180
agcgcggact tcaaaggtcg attcgcgttc agtctcgaga ccagcgcgag tacagcttac 240
ctccacatca acgatcttaa aaacgaagac acggcaacct atttttgcgc ccgggtcaggc 300
ggttacgacc ctatggacta ttggggccaa gggacctccg ttacggta 348

<210> 1729

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1729

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

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

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Ser Phe Lys Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Thr Gly Glu Ser Thr Tyr Ser Ala Asp Phe
50 55 60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Leu His Ile Asn Asp Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Ser Gly Gly Tyr Asp Pro Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Ser Val Thr Val
115

<210> 1730

<211> 51

<212> DNA

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1730
tcttcaggcg gtggcgggag tgggtggagga ggctcaggcg gcgggggatc a

51

<210> 1731
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1731
Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser

<210> 1732
<211> 360
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1732
gacatcgtagc tgaccaatc tcccgtagc cttgcagtat cttgggtca acgcgctaca 60
ataagttgcc gggctagtga gtccgtagac aactatggca acaccttcac gcattggtac 120
caacaaaaac caggtcagcc acccaaactt ctcatttaca gagcgtctaa tctcgaaagc 180
ggcatccctg ctcgattctc tggaagcgga agtagaaccg actttacact gactataaac 240
cccgtcgaag ccgatgatgt tgccacttat tactgtcaac agagcaatga ggaccaccg 300
acattcggtg ctggtaccaa gctggagttg aaggagtcaa aatacgggcc tccctgtccc 360

<210> 1733
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1733
Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
1 5 10 15

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

Gly Asn Thr Phe Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Arg Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala
50 55 60

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

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

Glu Asp Pro Pro Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Glu
100 105 110

Ser Lys Tyr Gly Pro Pro Cys Pro
115 120

<210> 1734
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1734
ggctcc

6

<210> 1735
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1735
Gly Ser
1

<210> 1736
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1736
gagctgccaa cccaggaac ttttcaa at gtatcaacta acgtctca

48

<210> 1737
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1737
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1738
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1738
cccgcgccac gaccaccaac accagcccca accattgcat cccagccttt gtctctccgg 60
cccgaggctt gtcgccccgc cgccgggggt gccgtccata cccgaggcct ggacttcgcc 120
tgcgat 126

<210> 1739
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1739
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1740
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1740
atatatatatt gggctcctct ggccggtacc tgcggcgtag tgctcctgtc actggtaata 60

accctgtatt gcaatcacag gaacagaagg agagtctgta agtgcccccg c

111

<210> 1741
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1741
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1742
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1742
gtcgac

6

<210> 1743
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1743
Val Asp
1

<210> 1744
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1744
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc

60

tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc
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120

cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1745
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1745
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1746
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1746
tga 3

<210> 1747
<211> 267
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1747
 gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
 aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
 ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
 tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
 taccatgtgt tcaggcggat cagtaag 267

<210> 1748
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1748
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15
 Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30
 Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45
 Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60
 Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80
 Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1749
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1749
 tcaggcgggtg gctcaggt 18

<210> 1750
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1750
 Ser Gly Gly Gly Ser Gly
 1 5

<210> 1751
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1751
 ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtcga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
 gtcgaactgt tgaagctc 318

<210> 1752
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1752
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu
100 105

<210> 1753
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1753
tcggggggcg gatcagg

17

<210> 1754
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1754
Ser Gly Gly Gly Ser
1 5

<210> 1755
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1755
gtcgacggat ttggtgatgt cgggtgctctt gagagtttga ggggaaatgc agatttggct 60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc 120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt 180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg 240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg 300
gtcattctct ctacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc 360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc 420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa 480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc 540
gagccagatg ccaccccgtt ccaggaaggt ttgaggacct tcgaccagct ggacgccata 600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt 660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag 720

cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg 780
 gtgaaaggga ttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc 840
 tttaaaacat cagctagcag agcc 864

<210> 1756
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1756
 Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
 1 5 10 15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
 20 25 30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
 50 55 60

Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80

Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95

Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110

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

Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140

Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160

Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175

Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190

Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205

Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
210 215 220

Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
225 230 235 240

Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
245 250 255

Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
260 265 270

Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 1757
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1757
ccgcgg

6

<210> 1758
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1758
Pro Arg
1

<210> 1759
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1759
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1760
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 1760
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1761
 <211> 999
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1761
 atgccaccac ctgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct 60
 gaggaaccac tggctcgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
 ggcacttctg atgggccaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct 180
 tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240
 tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
 ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
 ctgtttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
 tctgaaggcc caagttcacc ctcaggggaag ctgatgagcc caaaactgta cgtgtggggc 480
 aaagatcggc ccgagatctg ggagggagaa cctccatgcc tgccacctag agacagcctg 540
 aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
 ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatacctaag 660
 gggccaaaaa gtctgctgtc actggaactg aaggacgatc ggcctgccag agacatgtgg 720
 gtcacggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
 tgccaccggg gcaatctgac aatgtccttc catctggaga tctactgcaag gcccgctgtg 840
 tggcactggc tgctgcgaac cggaggatgg aaggctcagt ctgtgacact ggcatactctg 900
 atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg 960
 agaaagagaa agagaatgac tgaccaaca agaaggttt 999

<210> 1762
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1762

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

Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
 275 280 285

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
 290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
 305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
 325 330

<210> 1763
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1763
 tga 3

<210> 1764
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1764
 ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtt gaggcaggca aaaagggtcga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctc 318

<210> 1765
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1765
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu
100 105

<210> 1766
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1766
tcggggggcg gatcagg

17

<210> 1767
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1767
Ser Gly Gly Gly Ser
1 5

<210> 1768
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1768
gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcattgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120

ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
 tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
 taccatgtgt tcaggcggat cagtaag 267

<210> 1769
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1769
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1770
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1770
 tcaggcgggtg gctcaggt 18

<210> 1771
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1771
 Ser Gly Gly Gly Ser Gly
 1 5

<210> 1772
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

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<400> 1772
gtcgacggat ttggtgatgt cggtgctctt gagagtttga ggggaaatgc agatttggct      60
tacatcctga gcatggagcc ctgtggccac tgcctcatta tcaacaatgt gaacttctgc      120
cgtgagtccg ggctccgcac ccgcactggc tccaacatcg actgtgagaa gttgcggcgt      180
cgcttctcct cgctgcattt catggtggag gtgaagggcg acctgactgc caagaaaatg      240
gtgctggctt tgctggagct ggcgcggcag gaccacgggtg ctctggactg ctgcgtgggtg      300
gtcattctct ctcacggctg tcaggccagc cacctgcagt tcccaggggc tgtctacggc      360
acagatggat gccctgtgtc ggtcgagaag attgtgaaca tcttcaatgg gaccagctgc      420
cccagcctgg gagggaagcc caagctcttt ttcattccagg cctgtgggtg ggagcagaaa      480
gaccatgggt ttgaggtggc ctccacttcc cctgaagacg agtcccctgg cagtaacccc      540
gagccagatg ccaccccggt ccaggaaggt ttgaggacct tcgaccagct ggacgccata      600
tctagtttgc ccacaccag tgacatcttt gtgtcctact ctactttccc aggttttgtt      660
tcctggaggg accccaagag tggctcctgg tacgttgaga ccctggacga catctttgag      720
cagtgggctc actctgaaga cctgcagtcc ctctgctta gggtcgctaa tgctgtttcg      780
gtgaaagggg tttataaaca gatgcctggg tgctttaatt tcctccggaa aaaacttttc      840
tttaaaacat cagctagcag agcc                                         864
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<210> 1773
 <211> 288
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

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<400> 1773
Val Asp Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn
1          5          10          15

Ala Asp Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu
          20          25          30

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

Thr Gly Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser
50          55          60
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Leu His Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met
 65 70 75 80
 Val Leu Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp
 85 90 95
 Cys Cys Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu
 100 105 110
 Gln Phe Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val
 115 120 125
 Glu Lys Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly
 130 135 140
 Gly Lys Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys
 145 150 155 160
 Asp His Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro
 165 170 175
 Gly Ser Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg
 180 185 190
 Thr Phe Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp
 195 200 205
 Ile Phe Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp
 210 215 220
 Pro Lys Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu
 225 230 235 240
 Gln Trp Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala
 245 250 255
 Asn Ala Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe
 260 265 270
 Asn Phe Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 1774
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1774

<210> 1775
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1775
Pro Arg
1

<210> 1776
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1776
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1777
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1777
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1778
<211> 999
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1778
atgccaccac ctgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct 60
gaggaaccac tggctgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
ggcacttctg atgggccaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct 180
tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240

tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
 ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
 ctgttttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
 tctgaaggcc caagttcacc ctcaggaag ctgatgagcc caaaactgta cgtgtgggcc 480
 aaagatcggc ccgagatctg ggaggagaa cctccatgcc tgccacctag agacagcctg 540
 aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
 ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatacctaag 660
 gggccaaaaa gtctgctgtc actggaactg aaggacgatc ggcctgccag agacatgtgg 720
 gtcattggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780
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 atcttttgcc tgtgtccct ggtgggcatt ctgcatctgc agagagccct ggtgtgtcgg 960
 agaaagagaa agagaatgac tgaccaaca agaaggttt 999

<210> 1779
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1779
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125

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

<210> 1780
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1780
 tga

3

<210> 1781

<211> 163
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1781
agcgagagg cttggggcag ccgagcggca gccaggcccc ggcccggggc tcggttccag 60
aagggagagg agcccgccaa ggcgcgcaag agagcgggct gcctcgagc ccgagccgga 120
gagggagcgc gagccgcgcc ggccccggac ggcctccgaa acc 163

<210> 1782
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1782
Ala Gln Arg Leu Gly Ala Ala Glu Arg Gln Pro Gly Pro Gly Pro Gly
1 5 10 15

Leu Gly Ser Arg Arg Glu Arg Ser Pro Pro Arg Arg Ala Arg Glu Arg
20 25 30

Ala Ala Ser Gln Ser Glu Pro Glu Arg Glu Arg Glu Pro Arg Arg Pro
35 40 45

Arg Thr Ala Ser Glu Thr
50

<210> 1783
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1783
ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcacag aggctgggaa 180
gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1784

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1784
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1785
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1785
ggcgggcaat tg

12

<210> 1786
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1786
Gly Gly Gln Leu
1

<210> 1787
<211> 267

<212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"
 <400> 1787
 gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
 aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
 ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
 tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
 taccatgtgt tcaggcggat cagtaag 267

<210> 1788
 <211> 89
 <212> PRT
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"
 <400> 1788
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15
 Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30
 Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45
 Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60
 Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80
 Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1789
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"
 <400> 1789
 tcaggcgggtg gctcaggtcc atgg 24

<210> 1790
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1790
Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 1791
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1791
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggaggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1792
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1792
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
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1					5					10					15				
Leu	Ala	Tyr	Ile 20	Leu	Ser	Met	Glu	Pro 25	Cys	Gly	His	Cys	Leu 30	Ile	Ile				
Asn	Asn	Val 35	Asn	Phe	Cys	Arg	Glu 40	Ser	Gly	Leu	Arg	Thr 45	Arg	Thr	Gly				
Ser	Asn 50	Ile	Asp	Cys	Glu	Lys 55	Leu	Arg	Arg	Arg	Phe 60	Ser	Ser	Leu	His				
Phe 65	Met	Val	Glu	Val	Lys 70	Gly	Asp	Leu	Thr	Ala 75	Lys	Lys	Met	Val	Leu 80				
Ala	Leu	Leu	Glu	Leu 85	Ala	Arg	Gln	Asp	His 90	Gly	Ala	Leu	Asp	Cys 95	Cys				
Val	Val	Val	Ile 100	Leu	Ser	His	Gly	Cys 105	Gln	Ala	Ser	His	Leu 110	Gln	Phe				
Pro	Gly	Ala 115	Val	Tyr	Gly	Thr	Asp 120	Gly	Cys	Pro	Val	Ser 125	Val	Glu	Lys				
Ile	Val 130	Asn	Ile	Phe	Asn	Gly 135	Thr	Ser	Cys	Pro	Ser 140	Leu	Gly	Gly	Lys				
Pro 145	Lys	Leu	Phe	Phe	Ile 150	Gln	Ala	Cys	Gly	Gly 155	Glu	Gln	Lys	Asp	His 160				
Gly	Phe	Glu	Val	Ala 165	Ser	Thr	Ser	Pro	Glu 170	Asp	Glu	Ser	Pro	Gly 175	Ser				
Asn	Pro	Glu	Pro 180	Asp	Ala	Thr	Pro	Phe 185	Gln	Glu	Gly	Leu	Arg 190	Thr	Phe				
Asp	Gln	Leu 195	Asp	Ala	Ile	Ser	Ser 200	Leu	Pro	Thr	Pro	Ser 205	Asp	Ile	Phe				
Val	Ser 210	Tyr	Ser	Thr	Phe	Pro 215	Gly	Phe	Val	Ser	Trp 220	Arg	Asp	Pro	Lys				
Ser 225	Gly	Ser	Trp	Tyr	Val 230	Glu	Thr	Leu	Asp	Asp 235	Ile	Phe	Glu	Gln	Trp 240				
Ala	His	Ser	Glu	Asp 245	Leu	Gln	Ser	Leu	Leu 250	Leu	Arg	Val	Ala	Asn 255	Ala				
Val	Ser	Val	Lys 260	Gly	Ile	Tyr	Lys	Gln 265	Met	Pro	Gly	Cys	Phe 270	Asn	Phe				
Leu	Arg	Lys 275	Lys	Leu	Phe	Phe	Lys 280	Thr	Ser	Ala	Ser	Arg 285	Ala						

<210> 1793
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1793
ggatctggac cgcgg

15

<210> 1794
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1794
Gly Ser Gly Pro Arg
1 5

<210> 1795
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1795
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1796
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1796
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1797
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1797
ccatgg

6

<210> 1798
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1798
Pro Trp
1

<210> 1799
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1799
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc
agg

60

63

<210> 1800
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1800
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1801
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1801
gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
acaaaggtagg agataaaa 318

<210> 1802
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1802
Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 1803
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1803
ggcggaggaa gcggaggtgg gggc 24

<210> 1804
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1804
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1805
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1805
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgtgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc aggaactct ggtgacagtt agttcc 336

<210> 1806
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1806
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 1807
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1807
 ggatcc

6

<210> 1808
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1808
 Gly Ser
 1

<210> 1809
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1809
 gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1810
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1810
 Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
 1 5 10 15

<210> 1811
 <211> 126
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1811
 cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
 cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 1812
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1812
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15

 Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30

 His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 1813
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1813
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1814
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1814
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15

 Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val

Cys Lys Cys Pro Arg
35

<210> 1815
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1815
gtcgac

6

<210> 1816
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1816
Val Asp
1

<210> 1817
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1817
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 1818
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1818
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1819
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1819
 ggaacgcgtg gatcggga

18

<210> 1820
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1820
 Gly Thr Arg Gly Ser Gly
 1 5

<210> 1821
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1821
gctactaact tcagcctgct gaagcaggct ggagacgtgg aggagaaccc cgggcct 57

<210> 1822
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1822
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 1823
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1823
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 1824
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1824
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
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20

25

30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1825
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1825
 gtcgag

6

<210> 1826
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1826
 Val Glu
 1

<210> 1827

<211> 186
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1827
 aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 1828
 <211> 62
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1828
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
 1 5 10 15

 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30

 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45

 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 1829
 <211> 6
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1829
 gtcgag 6

<210> 1830
 <211> 2
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1830
Val Glu
1

<210> 1831
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1831
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctaa aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaaggtgga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgttg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1832
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1832
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1833
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1833
gtcgag

6

<210> 1834
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1834
Val Glu
1

<210> 1835
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1835
ggagtgcagg tggagactat ctccccagga gacggg'gcga ccttcccca ggcgcggccag 60
acctgcgtgg tgcactacac cgggatgctt gaagatggaa agaaagttga ttcctcccgg 120
gacagaaaca agccctttaa gtttatgcta ggcaagcagg aggtgatccg aggctgggaa 180
gaagggggttg cccagatgag tgtggggtcag agagccaaac tgactatatc tccagattat 240
gcctatggtg ccaactgggca cccaggcatc atcccaccac atgccactct cgtcttcgat 300
gtggagcttc taaaactgga a 321

<210> 1836
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1836
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
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20

25

30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 1837
 <211> 3
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1837
 tga

3

<210> 1838
 <211> 163
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 1838
 agcgagagg cttggggcag ccgagcggca gccaggcccc ggcccgggccc tcggttccag 60
 aagggagagg agcccgccaa ggcgcgcaag agagcgggct gcctcgagc ccgagccgga 120
 gagggagcgc gagccgcgcc ggccccggac ggcctccgaa acc 163

<210> 1839
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 1839
 Ala Gln Arg Leu Gly Ala Ala Glu Arg Gln Pro Gly Pro Gly Pro Gly
 1 5 10 15

Leu Gly Ser Arg Arg Glu Arg Ser Pro Pro Arg Arg Ala Arg Glu Arg
20 25 30

Ala Ala Ser Gln Ser Glu Pro Glu Arg Glu Arg Glu Pro Arg Arg Pro
35 40 45

Arg Thr Ala Ser Glu Thr
50

<210> 1840
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1840
ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
acctgcgtgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccgg 120
gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcatcag aggctgggaa 180
gaaggcgctcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
gcctatggcg caacaggcca tcccggcatc atccccccac atgccacact cgtctttgat 300
gtcgagctcc tgaaactgga g 321

<210> 1841
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1841
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
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Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1842
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1842
ggcgggcaat tg 12

<210> 1843
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1843
Gly Gly Gln Leu
1

<210> 1844
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1844
gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
taccatgtgt tcaggcggat cagtaag 267

<210> 1845
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1845

Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
85

<210> 1846
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1846
tcaggcgggtg gctcaggtcc atgg

24

<210> 1847
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1847
Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 1848
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1848
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180

tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcggtcga gaagatttg aacatcttca atgggaccag ctgccccagc	420
ctggggaggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt	600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg	660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 1849
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1849
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 1850
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1850
ggatctggac cgcgg

15

<210> 1851
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1851
Gly Ser Gly Pro Arg
1 5

<210> 1852
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1852
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1853
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1853
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1854
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1854
ccatgg

6

<210> 1855
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1855
Pro Trp
1

<210> 1856
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1856
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 1857
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1857
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15
Val Gln Cys Ser Arg
20

<210> 1858
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1858
gacatccaac tgacgcaaag cccatctaca ctacgcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
gatttcgcaa cctattactg tcagcaatgg gggccagcc cattcacttt cggccaagga 300
acaaaggtgg agataaaa 318

<210> 1859
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1859
Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 1860
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1860
ggcggaggaa gcggaggtgg gggc

24

<210> 1861
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1861
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1862
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1862
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgtgaca caagcaaaaa cactgcttat 240

ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
 ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 1863
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1863
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 1864
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1864
 ggatcc 6

<210> 1865
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1865
Gly Ser
1

<210> 1866
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1866
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 1867
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1867
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1868
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1868
cccgcccaac gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 1869
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1869
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1870
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1870
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1871
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1871
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1872
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1872
gtcgac 6

<210> 1873
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1873
Val Asp
1

<210> 1874
<211> 335
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1874
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcg 335

<210> 1875
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1875
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 1876

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

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1876
 tga 3

<210> 1877
 <211> 267
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1877
 gaaatgtggc atgaagggtt ggaagaagct tcaaggctgt acttcggaga gaggaacgtg 60
 aagggcatgt ttgaggttct tgaacctctg cagccatga tggaacgggg accgcagaca 120
 ctgaaagaaa cctcttttaa tcaggcctac ggcagagacc tgatggaggc ccaagaatgg 180
 tgtagaaagt atatgaaatc cggtaacgtg aaagacctga ctcaggcctg ggacctttat 240
 taccatgtgt tcaggcggat cagtaag 267

<210> 1878
 <211> 89
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1878
 Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly
 1 5 10 15

Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu His Ala
 20 25 30

Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe Asn Gln
 35 40 45

Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr
 50 55 60

Met Lys Ser Gly Asn Val Lys Asp Leu Thr Gln Ala Trp Asp Leu Tyr
 65 70 75 80

Tyr His Val Phe Arg Arg Ile Ser Lys
 85

<210> 1879
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1879
 ggcgggcaat tg

12

<210> 1880
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1880
 Gly Gly Gln Leu
 1

<210> 1881
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1881
 ggcgtgcaag tggaaactat aagcccggga gacggccgca catttcccaa gagaggccag 60
 acctgctgg tgcactatac aggaatgctg gaggacggga agaaattcga tagctcccg 120
 gatcgaaata agcctttcaa attcatgctg ggcaagcaag aagtcacag aggctgggaa 180
 gaaggcgtcg cccagatgtc cgtgggtcag cgcgccaagc tgacaattag tccagattac 240
 gcctatggcg caacaggcca tcccgcatc atccccccac atgccacact cgtctttgat 300
 gtcgagctcc tgaaactgga g 321

<210> 1882
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1882
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1883
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1883
tcaggcggtg gctcaggtcc atgg

24

<210> 1884
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1884
Ser Gly Gly Gly Ser Gly Pro Trp
1 5

<210> 1885
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1885
ggatttggtg atgtcggtag tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgag gcgtcgcttc 180

tcctcgctgc atttcatggg ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcggtcga gaagatttg aacatcttca atgggaccag ctgccccagc	420
ctgggaggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt	600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg	660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 1886
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1886
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 1887
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1887
ggatctggac cgcgg

15

<210> 1888
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1888
Gly Ser Gly Pro Arg
1 5

<210> 1889
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1889
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1890
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1890
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1891
<211> 999
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1891
atgccaccac ctcgcctgct gttctttctg ctgttcctga cacctatgga ggtgcgacct 60
gaggaaccac tggctgtgaa ggtcgaggaa ggcgacaatg ccgtgctgca gtgcctgaaa 120
ggcacttctg atgggccaac tcagcagctg acctgggtcca gggagtctcc cctgaagcct 180
tttctgaaac tgagcctggg actgccagga ctgggaatcc acatgcgccc tctggctatc 240
tggctgttca tcttcaacgt gagccagcag atgggaggat tctacctgtg ccagccagga 300
ccaccatccg agaaggcctg gcagcctgga tggaccgtca acgtggaggg gtctggagaa 360
ctgttttaggt ggaatgtgag tgacctggga ggactgggat gtgggctgaa gaaccgctcc 420
tctgaaggcc caagttcacc ctcagggaag ctgatgagcc caaaactgta cgtgtgggcc 480
aaagatcggc ccgagatctg ggaggagaa cctccatgcc tgccacctag agacagcctg 540
aatcagagtc tgtcacagga tctgacaatg gccccgggt ccactctgtg gctgtcttgt 600
ggagtccac ccgacagcgt gtccagaggc cctctgtcct ggaccacgt gcatcctaag 660
gggcaaaaa gtctgtgtc actggaactg aaggacgatc ggctgccag agacatgtgg 720
gtcatggaga ctggactgct gctgccacga gcaaccgcac aggatgctgg aaaatactat 780

tgccaccggg gcaatctgac aatgtccttc catctggaga tcaactgcaag gcccggtgctg	840
tggcactggc tgctgcgaac cggaggatgg aaggtcagtg ctgtgacact ggcataatctg	900
atcttttgcc tgtgctccct ggtgggcatt ctgcatctgc agagagccct ggtgctgcgg	960
agaaagagaa agagaatgac tgaccaaca agaaggttt	999

<210> 1892
 <211> 333
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1892
 Met Pro Pro Pro Arg Leu Leu Phe Phe Leu Leu Phe Leu Thr Pro Met
 1 5 10 15

Glu Val Arg Pro Glu Glu Pro Leu Val Val Lys Val Glu Glu Gly Asp
 20 25 30

Asn Ala Val Leu Gln Cys Leu Lys Gly Thr Ser Asp Gly Pro Thr Gln
 35 40 45

Gln Leu Thr Trp Ser Arg Glu Ser Pro Leu Lys Pro Phe Leu Lys Leu
 50 55 60

Ser Leu Gly Leu Pro Gly Leu Gly Ile His Met Arg Pro Leu Ala Ile
 65 70 75 80

Trp Leu Phe Ile Phe Asn Val Ser Gln Gln Met Gly Gly Phe Tyr Leu
 85 90 95

Cys Gln Pro Gly Pro Pro Ser Glu Lys Ala Trp Gln Pro Gly Trp Thr
 100 105 110

Val Asn Val Glu Gly Ser Gly Glu Leu Phe Arg Trp Asn Val Ser Asp
 115 120 125

Leu Gly Gly Leu Gly Cys Gly Leu Lys Asn Arg Ser Ser Glu Gly Pro
 130 135 140

Ser Ser Pro Ser Gly Lys Leu Met Ser Pro Lys Leu Tyr Val Trp Ala
 145 150 155 160

Lys Asp Arg Pro Glu Ile Trp Glu Gly Glu Pro Pro Cys Leu Pro Pro
 165 170 175

Arg Asp Ser Leu Asn Gln Ser Leu Ser Gln Asp Leu Thr Met Ala Pro
 180 185 190

Gly Ser Thr Leu Trp Leu Ser Cys Gly Val Pro Pro Asp Ser Val Ser
195 200 205

Arg Gly Pro Leu Ser Trp Thr His Val His Pro Lys Gly Pro Lys Ser
210 215 220

Leu Leu Ser Leu Glu Leu Lys Asp Asp Arg Pro Ala Arg Asp Met Trp
225 230 235 240

Val Met Glu Thr Gly Leu Leu Leu Pro Arg Ala Thr Ala Gln Asp Ala
245 250 255

Gly Lys Tyr Tyr Cys His Arg Gly Asn Leu Thr Met Ser Phe His Leu
260 265 270

Glu Ile Thr Ala Arg Pro Val Leu Trp His Trp Leu Leu Arg Thr Gly
275 280 285

Gly Trp Lys Val Ser Ala Val Thr Leu Ala Tyr Leu Ile Phe Cys Leu
290 295 300

Cys Ser Leu Val Gly Ile Leu His Leu Gln Arg Ala Leu Val Leu Arg
305 310 315 320

Arg Lys Arg Lys Arg Met Thr Asp Pro Thr Arg Arg Phe
325 330

<210> 1893
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1893
tga 3

<210> 1894
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1894
atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240

cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1895
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1895
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 1896
 <211> 6
 <212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1896

gtcgag

6

<210> 1897

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1897

Val Glu

1

<210> 1898

<211> 186

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1898

aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60

atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120

catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180

agacag 186

<210> 1899

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1899

Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1900
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1900
gtcgag

6

<210> 1901
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1901
Val Glu
1

<210> 1902
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1902
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtg gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1903
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1903
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
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aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
ctttattacc atgtgttcag gcggatcagt aag 273

<210> 1907
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1907
Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 1908
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1908
ggctcaggt 9

<210> 1909
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1909

Gly Ser Gly
1

<210> 1910
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1910
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1911
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1911
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1912
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1912
ccatgg

6

<210> 1913
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1913
Pro Trp
1

<210> 1914
<211> 63
<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1914

atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60

agg 63

<210> 1915

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1915

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 1916

<211> 318

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1916

gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60

atcacgtgct ctgcctcaag ttccgtagg tttatccatt ggtatcagca gaaacctgga 120

aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180

ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240

gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300

acaaagggtg agataaaa 318

<210> 1917

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1917

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

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 1918
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1918
ggcggaggaa gcggaggtgg gggc

24

<210> 1919
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1919
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1920
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1920
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60

tcctgcgctg cctctggctt taacattaa gactactaca tacattgggt gcggcaggcc 120

ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc aggggaactct ggtgacagtt agttcc 336

<210> 1921
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1921
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 1922
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1922
ggatcc

6

<210> 1923
<211> 2
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1923
Gly Ser
1

<210> 1924
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1924
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 1925
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1925
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1926
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1926
cccgcccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 1927
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1927
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 1928
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1928
atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
actctgtact gtaatcacCG gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 1929
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1929
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 1930
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1930
gtcgac 6

<210> 1931
<211> 2
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1931
Val Asp
1

<210> 1932
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1932
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 1933
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1933
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
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<210> 1934
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1934
 atgctcgagc aattggag 18

<210> 1935
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1935
 Met Leu Glu Gln Leu Glu
 1 5

<210> 1936
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1936
 ggagtgcagg tggagactat tagccccgga gatggcagaa cattccccaa aagaggacag 60
 acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
 gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
 gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
 gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
 gtggagctgc tgaagctgga a 321

<210> 1937
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1937
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1938
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1938
tcaggcgggtg gctcaggtgt ggac

24

<210> 1939
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1939
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 1940
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1940
ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg ccaactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc	180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc	420
ctggggagga agcccaagct ctttttcata caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt	600
ttgccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg	660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtccctctg cttagggctg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 1941
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1941
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 1942
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1942
ggatctggac cgcg

15

<210> 1943
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1943
Gly Ser Gly Pro Arg
1 5

<210> 1944
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1944
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1945
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1945
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1946
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1946
ccacgg

6

<210> 1947
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1947
Pro Arg
1

<210> 1948
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 1948
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaaggggtgt ccagtgtagc 60
 agg 63

<210> 1949
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 1949
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 1950
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 1950
 gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60
 atcacgtgct ctgcctcaag ttccgtagg tttatccatt ggtatcagca gaaacctgga 120
 aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
 ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
 gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
 acaaaggtgg agataaaa 318

<210> 1951
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 1951
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 1952
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1952
ggcggaggaa gcggaggtgg gggc

24

<210> 1953
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1953
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 1954
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1954
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60

tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120

ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180

gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
 ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
 ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 1955
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1955
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 1956
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1956
 ggatcc 6

<210> 1957
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 1957
Gly Ser
1

<210> 1958
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1958
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 1959
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1959
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 1960
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 1960
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gtagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 1961
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1961
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 1962
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1962
 ggttcgga

9

<210> 1963
 <211> 3
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 1963
 Gly Ser Gly
 1

<210> 1964
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 1964
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 1965
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1965
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 1966
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1966
ggatctgga 9

<210> 1967
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1967
Gly Ser Gly
1

<210> 1968
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1968
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct 57

<210> 1969
<211> 19
<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1969

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

Pro Gly Pro

<210> 1970

<211> 516

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1970

atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagga 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 1971

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1971

Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 1972
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1972
gtcgag

6

<210> 1973
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1973
Val Glu
1

<210> 1974
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

<400> 1974
aaaaaggtagg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 1975
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 1975
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 1976
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1976
gtcgag 6

<210> 1977
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1977
Val Glu
1

<210> 1978

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1978
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 1979
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1979
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro 15
1 5 10
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp 30
20 25 30
Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe 45
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala 60
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr 80
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr 95
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu 105
100 105

<210> 1980
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1980
gtcgag

6

<210> 1981
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1981
Val Glu
1

<210> 1982
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1982
caattggaaa tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
ctttattacc atgtgttcag gcggatcagt aag 273

<210> 1983
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1983
Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 1984
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1984
tcaggcgggtg gctcaggtcc gcggtga

27

<210> 1985
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1985
Ser Gly Gly Gly Ser Gly Pro Arg
1 5

<210> 1986
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1986
atgctcgagc aattggag

18

<210> 1987
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1987
Met Leu Glu Gln Leu Glu
1 5

<210> 1988

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1988
ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccaa aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
gtggagctgc tgaagctgga a 321

<210> 1989
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1989
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 1990
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1990
tcaggcgggtg gctcaggtgt ggac

24

<210> 1991
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1991
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 1992
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 1992
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtccctcctg cttaggggtcg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 1993
<211> 286
<212> PRT
<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 1993

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

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 1994
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1994
 ggatctggac cgcgg

15

<210> 1995
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1995
 Gly Ser Gly Pro Arg
 1 5

<210> 1996
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 1996
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 1997
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 1997
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 1998
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 1998
gcatgcgcca cc

12

<210> 1999
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 1999
Ala Cys Ala Thr
1

<210> 2000
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2000
atggagtttg ggttgatcatg gttgtttctc gtcgctattc tcaaaggtgt acaatgctcc
cgc

60

63

<210> 2001
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2001
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 2002
<211> 357
<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2002

gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc ccggcgaaac agtgaagata	60
tcttgtaaag cctccggtta cccttttacg aactatggaa tgaactgggt caaacaagcc	120
cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc	180
gcagatgatt tcaaaggtcg ctttgacttc tctactggaga ccagtgcaaa taccgcctac	240
cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa	300
gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgcagct tagtagc	357

<210> 2003

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2003

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

<210> 2004

<211> 45

<212> DNA

<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2004
 ggcggtggag gctccggtgg aggcggctct ggaggaggag gttca

45

<210> 2005
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2005
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 2006
 <211> 327
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 2006
 gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60
 ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120
 ggacaatccc caaaattgct gattttattct gcctctagta ggtacactgg ggtaccttct 180
 cggtttacgg gctctgggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
 gaagacctcg ctgtttattt ttgccagcag cacttccgaa ccccttttac ttttggtcga 300
 ggcactaagt tggaaatcaa ggctttg 327

<210> 2007
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 2007
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 2008
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2008
atgcat

6

<210> 2009
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2009
Met His
1

<210> 2010
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2010
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2011
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
Page 741

peptide"

<400> 2011

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

<210> 2012

<211> 336

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2012

agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttgacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 2013

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2013

Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 2014
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2014
atgctcgagc aattggag

18

<210> 2015
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2015
Met Leu Glu Gln Leu Glu
1 5

<210> 2016
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2016
ggagtgcagg tggagactat tagccccgga gatggcagaa cattccccaa aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
gtggagctgc tgaagctgga a 321

<210> 2017
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2017
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2018
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2018
tcaggcgggtg gctcaggtgt ggac

24

<210> 2019
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2019
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 2020
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2020
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180

tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcggtcga gaagatttg aacatcttca atgggaccag ctgccccagc	420
ctggggaggga agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt	600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttcctgg	660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 2021
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2021
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 2022
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2022
ggatctggac cgcgg

15

<210> 2023
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2023
Gly Ser Gly Pro Arg
1 5

<210> 2024
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2024
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2025
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2025
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 2026
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2026
ccatgg

6

<210> 2027
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2027
Pro Trp
1

<210> 2028
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2028
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 2029
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2029
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15
Val Gln Cys Ser Arg
20

<210> 2030
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2030
gacatccaac tgacgcaaag cccatctaca ctacgcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
gatttcgcaa cctattactg tcagcaatgg gggccagcc cattcacttt cggccaagga 300
acaaaggtgg agataaaa 318

<210> 2031
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2031
Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 2032
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2032
ggcggaggaa gcggaggtgg gggc

24

<210> 2033
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2033
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 2034
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2034
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgtgaca caagcaaaaa cactgcttat 240

ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
 ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 2035
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2035
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 2036
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2036
 ggatcc 6

<210> 2037
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2037
Gly Ser
1

<210> 2038
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2038
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2039
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2039
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2040
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2040
cccgccccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga 60
cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
tgcgac 126

<210> 2041
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2041
Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
1 5 10 15

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
20 25 30

His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40

<210> 2042
<211> 111
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2042
atctatatct gggcacctct cgctggcacc tgtggagtc tctgtctcag cctggttatt 60
actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 2043
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2043
Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
20 25 30

Cys Lys Cys Pro Arg
35

<210> 2044
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2044
gtcgac 6

<210> 2045
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2045
Val Asp
1

<210> 2046
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2046
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 2047
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2047
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 2048

<211> 276
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2048
atgcaattgg aaatgtggca tgaagggttg gaagaagctt caaggctgta cttcggagag 60
aggaacgtga agggcatggt tgaggttctt gaacctctgc acgcatgat ggaacgggga 120
ccgcagacac tgaagaaac ctcttttaat caggcctacg gcagagacct gatggaggcc 180
caagaatggt gtagaaagta tatgaaatcc ggtaacgtga aagacctgct ccaggcctgg 240
gacctttatt accatgtggt caggcggatc agtaag 276

<210> 2049
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2049
Met Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu
1 5 10 15
Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro
20 25 30
Leu His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser
35 40 45
Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys
50 55 60
Arg Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp
65 70 75 80
Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 2050
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2050
tcaggcgggtg gcagcggcca attg 24

<210> 2051
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2051
Ser Gly Gly Gly Ser Gly Gln Leu
1 5

<210> 2052
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2052
ggagtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgttg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 2053
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2053
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2054
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2054
ggaagcatgc ggatcgga 18

<210> 2055
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2055
Gly Ser Met Arg Ile Gly
1 5

<210> 2056
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2056
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 2057
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2057
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 2058
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2058
gtcgag

<210> 2059
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2059
Val Glu
1

<210> 2060
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2060
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 2061
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2061
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 2062
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2062
ggcagtgggc cgcgg

15

<210> 2063
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2063
Gly Ser Gly Pro Arg
1 5

<210> 2064
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2064
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2065
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2065
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 2066
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2066
ccatgg

6

<210> 2067
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2067
Pro Trp
1

<210> 2068
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2068
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 2069
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2069
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 2070
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2070
gacatccaac tgacgcaaag cccatctaca ctacgcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccca aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240

gatttcgcaa cctattactg tcagcaatgg gggccagcc cattcacttt cggccaagga 300
 acaaagggtgg agataaaa 318

<210> 2071
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2071
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
 20 25 30

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

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

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

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

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

<210> 2072
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2072
 ggcggaggaa gcggaggtgg gggc 24

<210> 2073
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2073

Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 2074
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2074
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 2075
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2075
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 2076
<211> 6

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2076
ggatcc

6

<210> 2077
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2077
Gly Ser
1

<210> 2078
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2078
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2079
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2079
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2080
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2080
cccgcccaa gacccccac acctgcgccg accattgctt ctcaaccct gagtttgaga

60

cccgaggcct gccggccagc tgccggcggg gccgtgcata caagaggact cgatttcgct 120
 tgcgac 126

<210> 2081
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2081
 Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
 1 5 10 15
 Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
 20 25 30
 His Thr Arg Gly Leu Asp Phe Ala Cys Asp
 35 40

<210> 2082
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2082
 atctatatct gggcacctct cgctggcacc tgtggagtcc ttctgctcag cctgggttatt 60
 actctgtact gtaatcaccg gaatcgccgc cgcgtttgta agtgtcccag g 111

<210> 2083
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2083
 Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
 1 5 10 15
 Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg Asn Arg Arg Arg Val
 20 25 30
 Cys Lys Cys Pro Arg
 35

<210> 2084
 <211> 6

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2084
gtcgac

6

<210> 2085
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2085
Val Asp
1

<210> 2086
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2086
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 2087
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2087
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 2088
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2088
atgcatatgc tggag 15

<210> 2089
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2089
Met His Met Leu Glu
1 5

<210> 2090
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2090
ggagtgcagg tggagactat tagccccgga gatggcagaa cattccccaa aagaggacag 60
acttgctg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240

gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
 gtggagctgc tgaagctgga a 321

<210> 2091
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2091
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 2092
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2092
 tcaggcgggtg gctcaggtgt ggac 24

<210> 2093
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2093

Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 2094
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2094
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agcccaagct ctttttcata caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 2095
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2095
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 2096

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2096
agcggccgca ggtagcggg

19

<210> 2097
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2097
Ala Ala Ala Gly Ser Gly
1 5

<210> 2098
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2098
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcggggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 2099
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2099
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45
 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60
 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95
 Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110
 Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125
 Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140
 Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160
 Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 2100
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2100
 gtcgag

6

<210> 2101
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2101
 Val Glu
 1

<210> 2102
 <211> 186
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 2102
 aaaaagggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
 atcaattttc ccgacgatct tcctgggtcc aacactgctg ctccagtga ggagacttta 120
 catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
 agacag 186

<210> 2103
 <211> 62
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 2103
 Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro HisPro Lys Gln
 1 5 10 15
 Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
 20 25 30
 Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
 35 40 45
 Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
 50 55 60

<210> 2104
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 2104
 gcggccgcag gtagcggg 18

<210> 2105
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

 <400> 2105
 Ala Ala Ala Gly Ser Gly

<210> 2106
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2106
 gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct 57

<210> 2107
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2107
 Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
 1 5 10 15

Pro Gly Pro

<210> 2108
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2108
 gtcgag 6

<210> 2109
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2109
 Val Glu
 1

<210> 2110
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 2110
 ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccgggaatt attccccctc acgctacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 2111
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 2111
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

 Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 2112
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2112
gtcgag

6

<210> 2113
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2113
Val Glu
1

<210> 2114
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2114
caattgaaa tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
ctttattacc atgtgttcag gcggatcagt aag 273

<210> 2115
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2115
Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
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65

70

75

80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
 85 90

<210> 2116

<400> 2116
000

<210> 2117

<400> 2117
000

<210> 2118

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2118

ggatctggac cgcgg

15

<210> 2119

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2119

Gly Ser Gly Pro Arg
1 5

<210> 2120

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2120

gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2121

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 2121
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 2122
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2122
 gcatgcgcca cc 12

<210> 2123
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2123
 Ala Cys Ala Thr
 1

<210> 2124
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2124
 atggagtttg ggttgatcatg gttgtttctc gtcgctattc tcaaaggtgt acaatgctcc 60
 cgc 63

<210> 2125
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2125

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 2126
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2126
gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc cgggcgaaac agtgaagata 60
tcttgtaaag cctccgggta cccttttacg aactatggaa tgaactgggt caaacaagcc 120
cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
gcagatgatt tcaaaggtcg ctttgacttc tctactggaga ccagtgcaaa taccgcctac 240
cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 2127
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2127
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15

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

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

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

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

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

Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 2128
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2128
ggcgggtggag gctccggtgg aggcggctct ggaggaggag gttca

45

<210> 2129
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2129
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 2130
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2130
gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60
ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120
ggacaatccc caaaattgct gatttattct gcctctagta ggtacactgg ggtaccttct 180
cggtttacgg gctctgggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
gaagacctcg ctgtttatatt ttgccagcag cacttccgaa ccccttttac ttttggtca 300
ggcactaagt tggaaatcaa ggctttg 327

<210> 2131
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2131
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Trp Ile Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Ala Thr Met Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 2132
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2132
 atgcat

6

<210> 2133
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2133
 Met His
 1

<210> 2134
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2134

gaacttccta ctcaggggac tttctcaaac gtttagcaca acgtaagt

48

<210> 2135
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2135
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2136
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2136
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttcatatgca agctcttcca cctcgt 336

<210> 2137
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2137
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 2138
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2138
atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcaggga 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 2139
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2139
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 2140
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2140
gtcgag

6

<210> 2141
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2141
Val Glu
1

<210> 2142
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2142
aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag
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60

atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgca ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 2143
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2143
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 2144
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2144
gtcgag 6

<210> 2145
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2145
Val Glu
1

<210> 2146
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

 <400> 2146
 ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
 acatgtgtcg tccattatac aggcattgtt gaggcaggca aaaagttcga cagtagtaga 120
 gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
 gagggcgtgg ctcaaatgtc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
 gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
 gtcgaactgt tgaagctcga a 321

<210> 2147
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 2147
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

 Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

 Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

 Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

 Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

 Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

 Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 2148
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

 <400> 2148

<210> 2149
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2149
Val Glu
1

<210> 2150
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2150
caattggaaa tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
ctttattacc atgtgttcag gcggatcagt aag 273

<210> 2151
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2151
Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 2152
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2152
gcggccgcag gtagcggg

18

<210> 2153
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2153
Ala Ala Ala Gly Ser Gly
1 5

<210> 2154
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2154
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct

57

<210> 2155
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2155
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 2156

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2156
ggatctgga

9

<210> 2157
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2157
Gly Ser Gly
1

<210> 2158
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2158
ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccca aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
gtggagctgc tgaagctgga a 321

<210> 2159
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2159
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2160
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2160
tcaggcgggtg gctcaggtgt ggac

24

<210> 2161
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2161
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 2162
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2162
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60

ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180

tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240

gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctggggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccagacca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
ttgcccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcttgg 660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtcctctctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 2163
<211> 286
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2163
Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 2164
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2164
ggatctggac cgcgg

15

<210> 2165
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2165
Gly Ser Gly Pro Arg
1 5

<210> 2166
<211> 54

<212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

 <400> 2166
 gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca 54

<210> 2167
 <211> 18
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

 <400> 2167
 Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
 1 5 10 15

Gly Pro

<210> 2168
 <211> 12
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

 <400> 2168
 gcatgcgcca cc 12

<210> 2169
 <211> 4
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

 <400> 2169
 Ala Cys Ala Thr
 1

<210> 2170
 <211> 63
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2170
atggagtttg ggttgatcatg gttgtttctc gtcgctattc tcaaaggtgt acaatgctcc 60
cgc 63

<210> 2171
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2171
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15
Val Gln Cys Ser Arg
20

<210> 2172
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2172
gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc ccggcgaaac agtgaagata 60
tcttgtaaag cctccggtta cccttttacg aactatggaa tgaactgggt caaacaagcc 120
cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
gcagatgatt tcaaaggtcg ctttgacttc tcttgagaga ccagtgcaaa taccgcctac 240
cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 2173
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2173
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15
Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Pro Phe Thr Asn Tyr
20 25 30

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

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

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

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

Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 2174
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2174
ggcggaggag gctccggtgg aggcggctct ggaggaggag gttca 45

<210> 2175
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2175
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 2176
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2176
gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60

ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120

ggacaatccc caaaattgct gatttattct gcctctagta ggtacactgg ggtaccttct 180

cggtttacgg gctctggggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
gaagacctcg ctgtttatatt ttgccagcag cacttccgaa ccccttttac ttttgggtca 300
ggcactaagt tggaatacaa ggctttg 327

<210> 2177
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2177
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 2178
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2178
atgcat 6

<210> 2179
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 2179
Met His
1

<210> 2180
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2180
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt 48

<210> 2181
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2181
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2182
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2182
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgcc ttcatatgca agctcttcca cctcgt 336

<210> 2183
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2183
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 2184
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2184
 atggctgcag gaggtcccg gcggtgtct gcggcccg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcg gcgcgctgt ctctgttctt gaacgtgcg 120
 acacaggtgg cggccgactg gaccgcgtg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgccccagc gacatc 516

<210> 2185
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2185
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15
 Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30
 Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45
 Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60
 Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95
 Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110
 Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125
 Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140
 Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160
 Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 2186
 <211> 6
 <212> DNA
 <213> Artificial Sequence
 <220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2186
 gtcgag

6

<210> 2187
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2187
Val Glu
1

<210> 2188
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2188
aaaaaggtag ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc ccgacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccgggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 2189
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2189
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 2190
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2190
gtcgag 6

<210> 2191
<211> 2

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2191
Val Glu
1

<210> 2192
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2192
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcggtg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 2193
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2193
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
Page 800

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2194
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2194
gtcgag

6

<210> 2195
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2195
Val Glu
1

<210> 2196
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2196
caattggaag tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
ctttattacc atgtgttcag gcggatcagt aag 273

<210> 2197
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2197

Gln Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
1 5 10 15

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 2198
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2198
gcggccgcag gtagcggg

18

<210> 2199
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2199
Ala Ala Ala Gly Ser Gly
1 5

<210> 2200
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2200
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct

57

<210> 2201
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2201
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 2202
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2202
atgcatatgc tggag 15

<210> 2203
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2203
Met His Met Leu Glu
1 5

<210> 2204
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2204
ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccaa aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca cccgggcatc attccccctc atgctacact ggtcttcgat 300
gtggagctgc tgaagctgga a 321

<210> 2205
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2205
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 2206
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2206
 tcaggcgggtg gctcaggtgt ggac

24

<210> 2207
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2207
 Ser Gly Gly Gly Ser Gly Val Asp
 1 5

<210> 2208
 <211> 858
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2208
 ggatttggtg atgtcgggtg tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
 ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
 tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
 tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
 gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
 ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
 ggatgccctg tgtcgggtcg gaagattgtg aacatcttca atgggaccag ctgccccagc 420
 ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
 gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
 gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600
 ttgcccacac ccagtacat ctttgtgtcc tactctactt tcccaggttt tgtttcctgg 660
 agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
 gctcactctg aagacctgca gtccctcctg cttaggggtcg ctaatgctgt ttcggtgaaa 780
 gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
 acatcagcta gcagagcc 858

<210> 2209
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2209
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15
 Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30
 Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45
 Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80
 Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95
 Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110
 Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu Lys
 115 120 125
 Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys
 130 135 140
 Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160
 Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175
 Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190
 Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205
 Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220
 Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240
 Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255
 Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270
 Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 2210

<211> 15

<212> DNA

<213> Artificial sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2210

ggatctggac cgcgg

<210> 2211
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2211
Gly Ser Gly Pro Arg
1 5

<210> 2212
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2212
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2213
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2213
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 2214
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2214
ccacgg

6

<210> 2215
<211> 2
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2215
Pro Arg
1

<210> 2216
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2216
atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
agg 63

<210> 2217
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2217
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15
Val Gln Cys Ser Arg
20

<210> 2218
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2218
gacatccaac tgacgcaaag cccatctaca ctacgcgcta gcatggggga cagggtcaca 60
atcacgtgct ctgcctcaag ttccgtagg tttatccatt ggtatcagca gaaacctgga 120
aaggcccca aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
acaaaggtgg agataaaa 318

<210> 2219

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

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2219
Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 2220
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2220
ggcggaggaa gcggaggtgg gggc

24

<210> 2221
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2221
Gly Gly Gly ser Gly Gly Gly Gly
1 5

<210> 2222
<211> 336

<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2222
gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc aggaactct ggtgacagtt agttcc 336

<210> 2223
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2223
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly 15
1 5 10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr 30
20 25 30
Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 45
35 40 45
Ala Trp Ile Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe 60
50 55 60
Gln Gly Arg Ala Thr Met Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr 80
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 95
85 90 95
Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 110
100 105 110

<210> 2224
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
Page 810

oligonucleotide"

<400> 2224
ggatcc

6

<210> 2225
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2225
Gly Ser
1

<210> 2226
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2226
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2227
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2227
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2228
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2228
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240

cggaggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
 tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 2229
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2229
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 2230
 <211> 273
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2230
 atgttgaaa tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
 aacgtgaagg gcatgtttga gggtcttgaa cctctgcacg ccatgatgga acggggaccg 120
 cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
 gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
 ctttattacc atgtgttcag gcggatcagt aag 273

<210> 2231
 <211> 91
 <212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2231

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

Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 2232

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2232

gtcgag

6

<210> 2233

<211> 2

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2233

Val Glu

1

<210> 2234

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic

polynucleotide"

<400> 2234
ggcgtccaag tcgaaacat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaagtgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccgaatt attccccctc acgtacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 2235
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2235
Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
1 5 10 15
Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30
Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45
Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60
Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80
Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95
Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2236
<211> 516
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2236
atggctgcag gaggtcccgg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120

acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcagggg 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcacttgcta ttgccccagc gacatc 516

<210> 2237
<211> 172
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2237
Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 2242
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2242
ggatctgga

9

<210> 2243
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2243
Gly Ser Gly
1

<210> 2244
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2244
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct

57

<210> 2245
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2245
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 2246
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2246
 atgcatatgc tggag

15

<210> 2247
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2247
 Met His Met Leu Glu
 1 5

<210> 2248
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2248
 ggagtgcagg tggagactat tagccccgga gatggcagaa cattccccaa aagaggacag 60
 acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
 gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
 gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
 gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
 gtggagctgc tgaagctgga a 321

<210> 2249
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2249
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2250
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2250
tcaggcgggtg gctcaggtgt ggac

24

<210> 2251
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2251
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 2252
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2252
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120

tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc	180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg	240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt	300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat	360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc	420
ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat	480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca	540
gatgccaccc cgttcagga aggtttgagg accttcgacc agctggacgc catatctagt	600
ttgccacac ccagtgcacat ctttgtgtcc tactctactt tcccaggttt tgtttcttgg	660
agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtccctcctg cttagggctg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 2253
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2253
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15
 Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30
 Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45
 Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60
 Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80
 Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95
 Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110
 Pro Gly Ala Val Tyr Gly Thr Asp Gly Cys Pro Val Ser Val Glu Lys
 115 120 125

Ile Val Asn Ile Phe Asn Gly Thr Ser Cys Pro Ser Leu Gly Gly Lys
 130 135 140
 Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160
 Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175
 Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190
 Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
 195 200 205
 Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
 210 215 220
 Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
 225 230 235 240
 Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
 245 250 255
 Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
 260 265 270
 Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
 275 280 285

<210> 2254
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2254
 ggatctggac cgcg

15

<210> 2255
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2255
 Gly Ser Gly Pro Arg
 1 5

<210> 2256
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2256
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2257
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2257
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 2258
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2258
ccacgg

6

<210> 2259
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2259
Pro Arg
1

<210> 2260
<211> 63
<212> DNA
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"
 <400> 2260
 atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60
 agg 63

<210> 2261
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"
 <400> 2261
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 2262
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"
 <400> 2262
 gacatccaac tgacgcaaag cccatctaca ctacgcgcta gcatggggga cagggtcaca 60
 atcacgtgct ctgcctcaag ttccgttagg tttatccatt ggtatcagca gaaacctgga 120
 aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180
 ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240
 gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300
 acaaaggtgg agataaaa 318

<210> 2263
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"
 <400> 2263
 Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Met Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
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20

25

30

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

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

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

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

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

<210> 2264
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 oligonucleotide"

<400> 2264
 ggcggaggaa gcggaggtgg gggc

24

<210> 2265
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 peptide"

<400> 2265
 Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 2266
 <211> 336
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 2266
 gaggtgcagc tcgtggagta tggcgggggc ctggtgcagc ctgggggtag tctgaggctc 60
 tcctgcgctg cctctggctt taacattaaa gactactaca tacattgggt gcggcaggcc 120
 ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180

gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
 ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
 ttctggggcc aggggaactct ggtgacagtt agttcc 336

<210> 2267
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2267
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Trp Ile Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Ala Thr Met Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 2268
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2268
 ggatcc 6

<210> 2269
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2269
Gly Ser
1

<210> 2270
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2270
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2271
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2271
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2272
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2272
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 2273
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2273
 Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
 1 5 10 15
 Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
 20 25 30
 Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
 35 40 45
 Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
 50 55 60
 Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
 65 70 75 80
 Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
 85 90 95
 Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 100 105 110

<210> 2274
 <211> 273
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polynucleotide"

<400> 2274
 atgttggaag tgtggcatga aggggttgaa gaagcttcaa ggctgtactt cggagagagg 60
 aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
 cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
 gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
 ctttattacc atgtgttcag gcggatcagt aag 273

<210> 2275
 <211> 91
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic
 polypeptide"

<400> 2275
 Met Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
 1 5 10 15
 Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
 20 25 30

His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
35 40 45

Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
50 55 60

Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
65 70 75 80

Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 2276
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2276
gtcgag

6

<210> 2277
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2277
Val Glu
1

<210> 2278
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2278
ggcgtccaag tcgaaaccat tagtcccggc gatggcagaa catttcctac aaggggacaa 60
acatgtgtcg tccattatac aggcattgtt gaggacggca aaaagttcga cagtagtaga 120
gatcgcaata aacctttcaa attcatgttg ggaaaacaag aagtcattag gggatgggag 180
gagggcgtgg ctcaaattgc cgtcggccaa cgcgctaagc tcaccatcag ccccgactac 240
gcatacggcg ctaccggaca tcccggaatt attccccctc acgctacctt ggtgtttgac 300
gtcgaactgt tgaagctcga a 321

<210> 2279
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2279
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
 85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
 100 105

<210> 2280
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2280
 atggctgcag gaggtcccg cgcggggtct gcggccccgg tctcctccac atcctccctt 60
 cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
 acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
 atccggcaac tggagacaca agcggaaccc actggcaggc tgctggacgc ctggcaggga 240
 cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
 gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
 cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtccacagg 420
 acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
 ttcgatgcct tcatctgcta ttgcccagc gacatc 516

<210> 2281
 <211> 172
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2281
 Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
 1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
 20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
 35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
 50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
 65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
 85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
 100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
 115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
 130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
 145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
 165 170

<210> 2282
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2282
 gtcgag

<210> 2283
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2283
Val Glu
1

<210> 2284
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2284
aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 2285
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2285
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 2286
<211> 9
<212> DNA
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2286
ggatctgga

9

<210> 2287
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2287
Gly Ser Gly
1

<210> 2288
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2288
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggctcct

57

<210> 2289
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2289
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 2290
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2290
atgcatatgc tggag

15

<210> 2291
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2291
 Met His Met Leu Glu
 1 5

<210> 2292
 <211> 321
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2292
 ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccca aagaggacag 60
 acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
 gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
 gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
 gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
 gtggagctgc tgaagctgga a 321

<210> 2293
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2293
 Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
 1 5 10 15

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
 20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
 35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
 50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
 65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2294
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2294
tcaggcgggtg gctcaggtgt ggac 24

<210> 2295
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2295
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 2296
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2296
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc 60
ctgagcatgg agccctgtgg cactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcgggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
ctgggagggg agcccaagct ctttttcatc caggcctgtg gtggggagca gaaagatcat 480
gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
gatgccaccc cgttccagga aggtttgagg accttcgacc agctggacgc catatctagt 600

ttgccacac ccagtgcacat ctttgtgtcc tactctactt tcccagggtt tgtttctg	660
agggaccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg	720
gctcactctg aagacctgca gtcctctctg cttagggtcg ctaatgctgt ttcggtgaaa	780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa	840
acatcagcta gcagagcc	858

<210> 2297
 <211> 286
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2297
 Gly Phe Gly Asp Val Gly Ala Leu Glu Ser Leu Arg Gly Asn Ala Asp
 1 5 10 15

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
 20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
 35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
 50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
 65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
 85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
 100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
 145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
 165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
 180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 2298
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2298
ggatctggac cgcgg

15

<210> 2299
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2299
Gly Ser Gly Pro Arg
1 5

<210> 2300
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2300
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2301
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2301
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 2302
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2302
gcatgcgcca cc

12

<210> 2303
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2303
Ala Cys Ala Thr
1

<210> 2304
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2304
atggagtttg ggttgatcatg gttgtttctc gtcgctattc tcaaaggtgt acaatgctcc
cgc

60

63

<210> 2305
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"
 <400> 2305
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15

Val Gln Cys Ser Arg
 20

<210> 2306
 <211> 357
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2306
 gaagtccaat tgcaacagtc aggccccgaa ttgaaaaagc cgggcgaaac agtgaagata 60
 tcttgtaaag cctccgggta cccttttacg aactatggaa tgaactgggt caaacaagcc 120
 cctggacagg gattgaagtg gatgggatgg atcaatacat caacaggcga gtctaccttc 180
 gcagatgatt tcaaaggtcg ctttgacttc tctactggaga ccagtgcaaa taccgcctac 240
 cttcagatta acaatcttaa aagcgaggat atggcaacct acttttgcg aagatgggaa 300
 gtttatcacg ggtacgtgcc atactgggga caaggaacga cagtgacagt tagtagc 357

<210> 2307
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2307
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
 1 5 10 15

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

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

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

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

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

Ala Arg Trp Glu Val Tyr His Gly Tyr Val Pro Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 2308
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2308
ggcggtaggag gctccggtgg aggcggctct ggaggaggag gttca 45

<210> 2309
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2309
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 2310
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2310
gacatccaat tgacacaatc acacaaattt ctctcaactt ctgtaggaga cagagtgagc 60
ataacctgca aagcatccca ggacgtgtac aatgctgtgg cttggtacca acagaagcct 120
ggacaatccc caaaattgct gattttattct gcctctagta ggtacactgg ggtaccttct 180
cggtttacgg gctctgggtc cggaccagat ttcacgttca caatcagttc cgttcaagct 240
gaagacctcg ctgtttattt ttgccagcag cacttccgaa ccccttttac ttttggtcga 300
ggcactaagt tggaaatcaa ggctttg 327

<210> 2311
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 2311
 Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
 20 25 30

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

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

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

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

 Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

<210> 2312
 <211> 6
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2312
 atgcat

6

<210> 2313
 <211> 2
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2313
 Met His
 1

<210> 2314
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2314
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2315
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2315
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2316
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2316
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggctctca gtacagccac caaggacacc 300
tacgacgccc ttacatgca agctcttcca cctcgt 336

<210> 2317
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2317
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 2318
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2318
atgggcgtcc aagtcgaaac cattagtccc ggcgatggca gaacatttcc tacaagggga 60
caaacatgtg tcgtccatta tacaggcatg ttggaggacg gcaaaaagtt cgacagtagt 120
agagatcgca ataaaccttt caaatcatg ttgggaaaac aagaagtcac taggggatgg 180
gaggagggcg tggctcaaat gtccgtcggc caacgcgcta agtcaccat cagccccgac 240
tacgcatacg gcgctaccgg acatccccga attattcccc ctcacgctac cttggtgttt 300
gacgtcgaac tgttgaagct cgaa 324

<210> 2319
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2319
Met Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe
1 5 10 15

Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
20 25 30

Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
35 40 45

Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
50 55 60

Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
65 70 75 80

Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
85 90 95

Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2320
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2320
ggatcaggcg gtggcagcgg ccaattg

27

<210> 2321
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2321
Gly Ser Gly Gly Gly Ser Gly Glu Leu
1 5

<210> 2322
<211> 273
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2322
atgttggaat tgtggcatga agggttggaa gaagcttcaa ggctgtactt cggagagagg 60
aacgtgaagg gcatgtttga ggttcttgaa cctctgcacg ccatgatgga acggggaccg 120
cagacactga aagaaacctc ttttaatcag gcctacggca gagacctgat ggaggcccaa 180
gaatggtgta gaaagtatat gaaatccggt aacgtgaaag acctgctcca ggcctgggac 240
ctttattacc atgtgttcag gcggatcagt aag 273

<210> 2323
<211> 91
<212> PRT
<213> Artificial Sequence

<220>

<221> source
 <223> /note="Description of Artificial Sequence: Synthetic polypeptide"

 <400> 2323
 Met Leu Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg Leu Tyr
 1 5 10 15

 Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu Pro Leu
 20 25 30

 His Ala Met Met Glu Arg Gly Pro Gln Thr Leu Lys Glu Thr Ser Phe
 35 40 45

 Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp Cys Arg
 50 55 60

 Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Leu Gln Ala Trp Asp
 65 70 75 80

 Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
 85 90

<210> 2324
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2324
 ggcagtggag gcggg

15

<210> 2325
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2325
 Gly Ser Gly Gly Gly Met
 1 5

<210> 2326
 <211> 516
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> source
 <223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2326

atggctgcag gaggtcccgg cgcgggggtct gcggccccgg tctcctccac atcctccctt 60
cccctggctg ctctcaacat gcgagtgcgg cgccgcctgt ctctgttctt gaacgtgcgg 120
acacaggtgg cggccgactg gaccgcgctg gcggaggaga tggactttga gtacttggag 180
atccggcaac tggagacaca agcggacccc actggcaggc tgctggacgc ctggcaggga 240
cgccctggcg cctctgtagg ccgactgctc gatctgctta ccaagctggg ccgcgacgac 300
gtgctgctgg agctgggacc cagcattgag gaggattgcc aaaagtatat cttgaagcag 360
cagcaggagg aggctgagaa gcctttacag gtggccgctg tagacagcag tgtcccacgg 420
acagcagagc tggcgggcat caccacactt gatgaccccc tggggcatat gcctgagcgt 480
ttcgatgcct tcattctgcta ttgccccagc gacatc 516

<210> 2327

<211> 172

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2327

Met Ala Ala Gly Gly Pro Gly Ala Gly Ser Ala Ala Pro Val Ser Ser
1 5 10 15

Thr Ser Ser Leu Pro Leu Ala Ala Leu Asn Met Arg Val Arg Arg Arg
20 25 30

Leu Ser Leu Phe Leu Asn Val Arg Thr Gln Val Ala Ala Asp Trp Thr
35 40 45

Ala Leu Ala Glu Glu Met Asp Phe Glu Tyr Leu Glu Ile Arg Gln Leu
50 55 60

Glu Thr Gln Ala Asp Pro Thr Gly Arg Leu Leu Asp Ala Trp Gln Gly
65 70 75 80

Arg Pro Gly Ala Ser Val Gly Arg Leu Leu Asp Leu Leu Thr Lys Leu
85 90 95

Gly Arg Asp Asp Val Leu Leu Glu Leu Gly Pro Ser Ile Glu Glu Asp
100 105 110

Cys Gln Lys Tyr Ile Leu Lys Gln Gln Gln Glu Glu Ala Glu Lys Pro
115 120 125

Leu Gln Val Ala Ala Val Asp Ser Ser Val Pro Arg Thr Ala Glu Leu
130 135 140

Ala Gly Ile Thr Thr Leu Asp Asp Pro Leu Gly His Met Pro Glu Arg
145 150 155 160

Phe Asp Ala Phe Ile Cys Tyr Cys Pro Ser Asp Ile
165 170

<210> 2328
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2328
gtcgag 6

<210> 2329
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2329
Val Glu
1

<210> 2330
<211> 186
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2330
aaaaaggtgg ccaagaagcc aaccaataag gccccccacc ccaagcagga gccccaggag 60
atcaattttc cgcacgatct tcctggctcc aacactgctg ctccagtgcg ggagacttta 120
catggatgcc aaccggtcac ccaggaggat ggcaaagaga gtcgcatctc agtgcaggag 180
agacag 186

<210> 2331
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2331
Lys Lys Val Ala Lys Lys Pro Thr Asn Lys Ala Pro His Pro Lys Gln
1 5 10 15

Glu Pro Gln Glu Ile Asn Phe Pro Asp Asp Leu Pro Gly Ser Asn Thr
20 25 30

Ala Ala Pro Val Gln Glu Thr Leu His Gly Cys Gln Pro Val Thr Gln
35 40 45

Glu Asp Gly Lys Glu Ser Arg Ile Ser Val Gln Glu Arg Gln
50 55 60

<210> 2332
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2332
ggatctgga

9

<210> 2333
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2333
Gly Ser Gly
1

<210> 2334
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2334
gcaacgaatt tttccctgct gaaacaggca ggggacgtag aggaaaatcc tggtcct

57

<210> 2335
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2335
Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 2336
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2336
atgcatatgc tggag

15

<210> 2337
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2337
Met His Met Leu Glu
1 5

<210> 2338
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2338
ggagtgcagg tggagactat tagccccgga gatggcagaa cattcccaa aagaggacag 60
acttgcgtcg tgcattatac tggaatgctg gaagacggca agaaggtgga cagcagccgg 120
gaccgaaaca agcccttcaa gttcatgctg gggaagcagg aagtgatccg gggctgggag 180
gaaggagtcg cacagatgtc agtgggacag agggccaaac tgactattag cccagactac 240
gcttatggag caaccggcca ccccgggatc attccccctc atgctacact ggtcttcgat 300
gtggagctgc tgaagctgga a 321

<210> 2339
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2339

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

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
20 25 30

Gly Lys Lys Val Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
35 40 45

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
50 55 60

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
65 70 75 80

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
85 90 95

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
100 105

<210> 2340
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2340
tcaggcgggtg gctcaggtgt ggac

24

<210> 2341
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2341
Ser Gly Gly Gly Ser Gly Val Asp
1 5

<210> 2342
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2342
ggatttggtg atgtcgggtgc tcttgagagt ttgaggggaa atgcagattt ggcttacatc
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60

ctgagcatgg agccctgtgg ccactgcctc attatcaaca atgtgaactt ctgccgtgag 120
tccgggctcc gcacccgcac tggctccaac atcgactgtg agaagttgcg gcgtcgcttc 180
tcctcgctgc atttcatggt ggaggtgaag ggcgacctga ctgccaagaa aatggtgctg 240
gctttgctgg agctggcgcg gcaggaccac ggtgctctgg actgctgcgt ggtggtcatt 300
ctctctcacg gctgtcaggc cagccacctg cagttcccag gggctgtcta cggcacagat 360
ggatgccctg tgtcggtcga gaagattgtg aacatcttca atgggaccag ctgccccagc 420
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gggtttgagg tggcctccac ttcccctgaa gacgagtccc ctggcagtaa ccccgagcca 540
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agggacccca agagtggctc ctggtacgtt gagaccctgg acgacatctt tgagcagtgg 720
gctcactctg aagacctgca gtcctcctg cttagggctg ctaatgctgt ttcggtgaaa 780
gggatttata aacagatgcc tggttgcttt aatttcctcc ggaaaaaact tttctttaaa 840
acatcagcta gcagagcc 858

<210> 2343

<211> 286

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2343

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

Leu Ala Tyr Ile Leu Ser Met Glu Pro Cys Gly His Cys Leu Ile Ile
20 25 30

Asn Asn Val Asn Phe Cys Arg Glu Ser Gly Leu Arg Thr Arg Thr Gly
35 40 45

Ser Asn Ile Asp Cys Glu Lys Leu Arg Arg Arg Phe Ser Ser Leu His
50 55 60

Phe Met Val Glu Val Lys Gly Asp Leu Thr Ala Lys Lys Met Val Leu
65 70 75 80

Ala Leu Leu Glu Leu Ala Arg Gln Asp His Gly Ala Leu Asp Cys Cys
85 90 95

Val Val Val Ile Leu Ser His Gly Cys Gln Ala Ser His Leu Gln Phe
100 105 110

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

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

Pro Lys Leu Phe Phe Ile Gln Ala Cys Gly Gly Glu Gln Lys Asp His
145 150 155 160

Gly Phe Glu Val Ala Ser Thr Ser Pro Glu Asp Glu Ser Pro Gly Ser
165 170 175

Asn Pro Glu Pro Asp Ala Thr Pro Phe Gln Glu Gly Leu Arg Thr Phe
180 185 190

Asp Gln Leu Asp Ala Ile Ser Ser Leu Pro Thr Pro Ser Asp Ile Phe
195 200 205

Val Ser Tyr Ser Thr Phe Pro Gly Phe Val Ser Trp Arg Asp Pro Lys
210 215 220

Ser Gly Ser Trp Tyr Val Glu Thr Leu Asp Asp Ile Phe Glu Gln Trp
225 230 235 240

Ala His Ser Glu Asp Leu Gln Ser Leu Leu Leu Arg Val Ala Asn Ala
245 250 255

Val Ser Val Lys Gly Ile Tyr Lys Gln Met Pro Gly Cys Phe Asn Phe
260 265 270

Leu Arg Lys Lys Leu Phe Phe Lys Thr Ser Ala Ser Arg Ala
275 280 285

<210> 2344
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2344
ggatctggac cgcg

15

<210> 2345
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2345

Gly Ser Gly Pro Arg
1 5

<210> 2346
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2346
gaaggccgag ggagcctgct gacatgtggc gatgtggagg aaaaccagg acca

54

<210> 2347
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2347
Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 2348
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2348
ccacgg

6

<210> 2349
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2349
Pro Arg
1

<210> 2350
<211> 63
<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2350

atggagtttg gactttcttg gttgtttttg gtggcaattc tgaagggtgt ccagtgtagc 60

agg 63

<210> 2351

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2351

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Ser Arg
20

<210> 2352

<211> 318

<212> DNA

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2352

gacatccaac tgacgcaaag cccatctaca ctcagcgcta gcatggggga cagggtcaca 60

atcacgtgct ctgcctcaag ttccgtagg tttatccatt ggtatcagca gaaacctgga 120

aaggcccaa aaagactgat ctatgatacc agcaagctgg cttccggagt gccctcaagg 180

ttctcaggat ctggcagtgg gaccgatttc accctgacaa ttagcagcct tcagccagag 240

gatttcgcaa cctattactg tcagcaatgg gggtcagcc cattcacttt cggccaagga 300

acaaagggtg agataaaa 318

<210> 2353

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2353

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

Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Arg Phe Ile
20 25 30

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

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

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

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

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

<210> 2354
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 2354
ggcggaggaa gcggaggtgg gggc

24

<210> 2355
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 2355
Gly Gly Gly Ser Gly Gly Gly Gly
1 5

<210> 2356
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 2356
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tcctgcgctg cctctggctt taacattaa gactactaca tacattgggt gcggcaggcc 120

ccaggcaaag ggctcgaatg ggtggcctgg attgaccctg agaatggtga cactgagttt 180
gtccccaagt ttcagggcag agccaccatg agcgctgaca caagcaaaaa cactgcttat 240
ctccaaatga atagcctgcg agctgaagat acagcagtct attactgcaa gacgggagga 300
ttctggggcc agggaactct ggtgacagtt agttcc 336

<210> 2357
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2357
Glu Val Gln Leu Val Glu Tyr Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Tyr
20 25 30

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

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

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

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

Lys Thr Gly Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
100 105 110

<210> 2358
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2358
ggatcc

6

<210> 2359
<211> 2
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2359
Gly Ser
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<210> 2360
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 2360
gaacttccta ctcaggggac tttctcaaac gttagcacia acgtaagt

48

<210> 2361
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2361
Glu Leu Pro Thr Gln Gly Thr Phe Ser Asn Val Ser Thr Asn Val Ser
1 5 10 15

<210> 2362
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 2362
agagtgaagt tcagcaggag cgcagacgcc cccgcgtacc agcagggcca gaaccagctc 60
tataacgagc tcaatctagg acgaagagag gagtacgatg ttttggacaa gagacgtggc 120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat 180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc 240
cggaggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca agctcttcca cctcgt 336

<210> 2363
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 2363

Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 2364

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 2364

Leu Glu His Asp
1