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SEQUENCE LISTING

<110> NOVARTIS AG
THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

<120> TREATMENT OF CANCER USING A CLL-1 CHIMERIC ANTIGEN RECEPTOR

<130> N2067-7044W03

<140>
<141>

<150> PCT/CN2014/090500
<151> 2014-11-06

<150> PCT/CN2014/082602
<151> 2014-07-21

<160> 481

<170> PatentIn version 3.5

<210> 1
<211> 21
<212> PRT
<213> Artificial Sequence

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

<400> 1
Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro
 20

<210> 2
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<221> source

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

<400> 2

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
1 5 10 15

Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly
20 25 30

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp
35 40 45

<210> 3

<211> 230

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 3

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe
1 5 10 15

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
20 25 30

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

Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
50 55 60

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
65 70 75 80

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu

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<400> 4

Arg Trp Pro Glu Ser Pro Lys Ala Gln Ala Ser Ser Val Pro Thr Ala
1 5 10 15

Gln Pro Gln Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala Pro Ala
20 25 30

Thr Thr Arg Asn Thr Gly Arg Gly Gly Glu Glu Lys Lys Lys Glu Lys
35 40 45

Glu Lys Glu Glu Gln Glu Glu Arg Glu Thr Lys Thr Pro Glu Cys Pro
50 55 60

Ser His Thr Gln Pro Leu Gly Val Tyr Leu Leu Thr Pro Ala Val Gln
65 70 75 80

Asp Leu Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys Phe Val Val Gly
85 90 95

Ser Asp Leu Lys Asp Ala His Leu Thr Trp Glu Val Ala Gly Lys Val
100 105 110

Pro Thr Gly Gly Val Glu Glu Gly Leu Leu Glu Arg His Ser Asn Gly
115 120 125

Ser Gln Ser Gln His Ser Arg Leu Thr Leu Pro Arg Ser Leu Trp Asn
130 135 140

Ala Gly Thr Ser Val Thr Cys Thr Leu Asn His Pro Ser Leu Pro Pro
145 150 155 160

Gln Arg Leu Met Ala Leu Arg Glu Pro Ala Ala Gln Ala Pro Val Lys
165 170 175

Leu Ser Leu Asn Leu Leu Ala Ser Ser Asp Pro Pro Glu Ala Ala Ser
180 185 190

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Trp Leu Leu Cys Glu Val Ser Gly Phe Ser Pro Pro Asn Ile Leu Leu
195 200 205

Met Trp Leu Glu Asp Gln Arg Glu Val Asn Thr Ser Gly Phe Ala Pro
210 215 220

Ala Arg Pro Pro Pro Gln Pro Gly Ser Thr Thr Phe Trp Ala Trp Ser
225 230 235 240

Val Leu Arg Val Pro Ala Pro Pro Ser Pro Gln Pro Ala Thr Tyr Thr
245 250 255

Cys Val Val Ser His Glu Asp Ser Arg Thr Leu Leu Asn Ala Ser Arg
260 265 270

Ser Leu Glu Val Ser Tyr Val Thr Asp His
275 280

<210> 5

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 5

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 6

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 6
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
20

<210> 7
<211> 42
<212> PRT
<213> Artificial Sequence

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

<400> 7
Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
1 5 10 15

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

Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu
35 40

<210> 8
<211> 48
<212> PRT
<213> Artificial Sequence

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

<400> 8
Gln Arg Arg Lys Tyr Arg Ser Asn Lys Gly Glu Ser Pro Val Glu Pro
1 5 10 15

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Ala Glu Pro Cys Arg Tyr Ser Cys Pro Arg Glu Glu Glu Gly Ser Thr
20 25 30

Ile Pro Ile Gln Glu Asp Tyr Arg Lys Pro Glu Pro Ala Cys Ser Pro
35 40 45

<210> 9
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 9
Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Lys 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

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<210> 10
<211> 112
<212> PRT
<213> Homo sapiens

<400> 10
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> 11
<211> 1184
<212> DNA
<213> Artificial Sequence

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

<400> 11
cgtgaggctc cgggtgcccgt cagtggggcag agcgcacatc gcccacagtc cccgagaagt

60

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tgsggggagg ggtcggcaat tgaaccgggtg cctagagaag gtggcgcggg gtaaactggg	120
aaagtgatgt cgtgtactgg ctccgccttt ttcccggagg tgsggggagaa ccgtatataa	180
gtgcagtagt cgccgtgaac gttctttttt gcaacggggtt tgccgccaga acacaggtaa	240
gtgccgtgtg tggttcccg cggcctggcc tctttacggg ttatggccct tgcgtgcctt	300
gaattacttc cacctggctg cagtacgtga ttcttgatcc cgagcttcgg gttggaagt	360
ggtgggagag ttcgaggcct tgcgcttaag gagccccctt gcctcgtgct tgagttgagg	420
cctggcctgg gcgctggggc cgccgcgtgc gaatctgggt gcaccttcgc gcctgtctcg	480
ctgctttcga taagtctcta gccatttaaa atttttgatg acctgctgcg acgctttttt	540
tctggcaaga tagtcttgta aatgcgggcc aagatctgca cactgggtatt tcggtttttg	600
gggcccgcggg cggcgacggg gcccgctgct cccagcgcac atgttcggcg aggcggggcc	660
tgcgagcgcg gccaccgaga atcggacggg ggtagtctca agctggccgg cctgctctgg	720
tgccctggcct cgcgccgccc tgtatcgccc cgccctgggc ggcaaggctg gcccggctcg	780
caccagttgc gtgagcggaa agatggccgc ttcccggccc tgctgcaggg agctcaaaat	840
ggaggacgcg gcgctcgga gagcgggcgg gtgagtcacc cacacaaagg aaaagggcct	900
ttccgtcctc agccgtcgt tcatgtgact ccacggagta ccgggcgccc tccaggcacc	960
tcgattagtt ctcgagcttt tggagtacgt cgtctttagg ttggggggag gggttttatg	1020
cgatggagtt tccccacact gagggggtgg agactgaagt taggccagct tggcacttga	1080
tgtaattctc cttggaattt gccctttttg agtttggatc ttggttcatt ctcaagcctc	1140
agacagtggg tcaaagtttt tttcttccat ttcaggtgtc gtga	1184

<210> 12

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

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<400> 12
atggccctgc ctgtgacagc cctgctgctg cctctggctc tgctgctgca tgccgctaga 60
ccc 63

<210> 13
<211> 135
<212> DNA
<213> Artificial Sequence

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

<400> 13
accacgacgc cagcgccgcg accaccaaca ccggcgccca ccatcgcgtc gcagcccctg 60
tccctgcgcc cagaggcgtg ccggccagcg gcggggggcg cagtgcacac gagggggctg 120
gacttcgcct gtgat 135

<210> 14
<211> 690
<212> DNA
<213> Artificial Sequence

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

<400> 14
gagagcaagt acggccctcc ctgccccct tgccctgccc ccgagttcct gggcggaccc 60
agcgtgttcc tgttcccccc caagcccaag gacaccctga tgatcagccg gacccccgag 120
gtgacctgtg tgggtggtgga cgtgtcccag gaggaccccg aggtccagtt caactggtac 180
gtggacggcg tggagggtgca caacgccaag accaagcccc gggaggagca gttcaatagc 240
acctaccggg tgggtgtccgt gctgaccgtg ctgcaccagg actggctgaa cggcaaggaa 300
tacaagtgta aggtgtccaa caagggcctg cccagcagca tcgagaaaac catcagcaag 360

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gccaagggcc agcctcggga gccccaggtg tacaccctgc cccctagcca agaggagatg	420
accaagaacc aggtgtccct gacctgcctg gtgaagggt tctaccccag cgacatcgcc	480
gtggagtggg agagcaacgg ccagcccag aacaactaca agaccacccc ccctgtgctg	540
gacagcgacg gcagcttctt cctgtacagc cggctgaccg tggacaagag ccggtggcag	600
gagggcaacg tcttttagctg ctccgtgatg cacgaggccc tgcacaacca ctacaccag	660
aagagcctga gcctgtccct gggcaagatg	690

<210> 15

<211> 847

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 15

aggtggcccc aaagtcccaa ggcccaggca tctagtgttc ctactgcaca gccccaggca	60
gaaggcagcc tagccaaagc tactactgca cctgccacta cgcgcaatac tggccgtggc	120
ggggaggaga agaaaaagga gaaagagaaa gaagaacagg aagagaggga gaccaagacc	180
cctgaatgtc catcccatac ccagccgctg ggcgctctatc tcttgactcc cgcagtacag	240
gacttgtggc ttagagataa ggccaccttt acatgtttcg tcgtgggctc tgacctgaag	300
gatgcccatt tgacttggga ggttgccgga aaggtaccca cagggggggt tgaggaaggg	360
ttgctggagc gccattccaa tggctctcag agccagcact caagactcac cttccgaga	420
tccctgtgga acgccgggac ctctgtcaca tgtactctaa atcatcctag cctgccccca	480
cagcgtctga tggcccttag agagccagcc gcccaggcac cagttaagct tagcctgaat	540
ctgctcgcca gtagtgatcc ccagaggcc gccagctggc tcttatgcga agtgtccggc	600
tttagcccg ccaacatctt gctcatgtgg ctggaggacc agcgagaagt gaacaccagc	660
ggcttcgctc cagcccggcc cccaccccag ccgggttcta ccacattctg ggcttgagtg	720

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gtcttaaggg tcccagcacc acctagcccc cagccagcca catacacctg tgttgtgtcc	780
catgaagata gcaggaccct gctaaatgct tctaggagtc tggaggtttc ctacgtgact	840
gaccatt	847

<210> 16
 <211> 30
 <212> DNA
 <213> Artificial Sequence

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

<400> 16 ggtaggcggag gttctggagg tggaggttcc	30
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<210> 17
 <211> 72
 <212> DNA
 <213> Artificial Sequence

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

<400> 17 atctacatct gggcgccctt ggccgggact tgtgggggtcc ttctcctgtc actggttatc	60
accctttact gc	72

<210> 18
 <211> 126
 <212> DNA
 <213> Artificial Sequence

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

<400> 18

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aaacggggca gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa	60
actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt	120
gaactg	126

<210> 19
 <211> 123
 <212> DNA
 <213> Artificial Sequence

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

<400> 19	
aggagtaaga ggagcaggct cctgcacagt gactacatga acatgactcc ccgccgcccc	60
gggcccaccc gcaagcatta ccagccctat gccccaccac gcgacttcgc agcctatcgc	120
tcc	123

<210> 20
 <211> 336
 <212> DNA
 <213> Artificial Sequence

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

<400> 20	
agagtgaagt tcagcaggag cgcagacgcc cccgcgtaca agcagggccca gaaccagctc	60
tataacgagc tcaatctagg acgaagagag gactacgatg ttttggacaa gagacgtggc	120
cgggaccctg agatgggggg aaagccgaga aggaagaacc ctcaggaagg cctgtacaat	180
gaactgcaga aagataagat ggcggaggcc tacagtgaga ttgggatgaa aggcgagcgc	240
cggagggggca aggggcacga tggcctttac cagggtctca gtacagccac caaggacacc	300
tacgacgccc ttcacatgca ggccctgccc cctcgc	336

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<210> 21
<211> 336
<212> DNA
<213> Homo sapiens

<400> 21
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 aggggcacga tggcctttac caggggtctca gtacagccac caaggacacc 300
tacgacgccc ttcacatgca ggccctgccc cctcgc 336

<210> 22
<211> 373
<212> PRT
<213> Artificial Sequence

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

<400> 22
Pro Gly Trp Phe Leu Asp Ser Pro Asp Arg Pro Trp Asn Pro Pro Thr
1 5 10 15

Phe Ser Pro Ala Leu Leu Val Val Thr Glu Gly Asp Asn Ala Thr Phe
20 25 30

Thr Cys Ser Phe Ser Asn Thr Ser Glu Ser Phe Val Leu Asn Trp Tyr
35 40 45

Arg Met Ser Pro Ser Asn Gln Thr Asp Lys Leu Ala Ala Phe Pro Glu
50 55 60

Asp Arg Ser Gln Pro Gly Gln Asp Cys Arg Phe Arg Val Thr Gln Leu

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

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260

265

270

Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly
275 280 285

Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro
290 295 300

Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr
305 310 315 320

Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly
325 330 335

Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln
340 345 350

Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln
355 360 365

Ala Leu Pro Pro Arg
370

<210> 23

<211> 1182

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 23

atggccctcc ctgtcactgc cctgcttctc cccctcgcac tcctgctcca cgccgctaga 60

ccacccggat ggtttctgga ctctccggat cgcccggtgga atcccccaac cttctcaccg 120

gcactcttgg ttgtgactga gggcgataat gcgaccttca cgtgctcggtt ctccaacacc 180

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tccgaatcat tcgtgctgaa ctggtaccgc atgagcccgt caaaccagac cgacaagctc	240
gccgcgtttc cggaagatcg gtcgcaaccg ggacaggatt gtcggttccg cgtgactcaa	300
ctgccgaatg gcagagactt ccacatgagc gtggtccgcg ctaggcgaaa cgactccggg	360
acctacctgt gcggagccat ctcgctggcg cctaaggccc aaatcaaaga gagcttgagg	420
gccgaactga gaggtagcca gcgcagagct gaggtgcaa ctgcacatcc atccccatcg	480
cctcggcctg cggggcagtt tcagaccctg gtcacgacca ctccggcgcc gcgcccaccg	540
actccggccc caactatcgc gagccagccc ctgtcgctga ggccggaagc atgccgccct	600
gccgccggag gtgctgtgca taccgggga ttggacttcg catgagacat ctacatttgg	660
gctcctctcg ccggaacttg tggcgtgctc cttctgtccc tggatcatcac cctgtactgc	720
aagcgggggtc ggaaaaagct tctgtacatt ttcaagcagc ctttcatgag gcccgtgcaa	780
accacccagg aggaggacgg ttgctcctgc cggttccccg aagaggaaga aggaggttgc	840
gagctgcgcg tgaagtctc ccggagcgcc gacgccccg cctataagca gggccagaac	900
cagctgtaca acgaactgaa cctgggacgg cgggaagagt acgatgtgct ggacaagcgg	960
cgcgggccggg accccgaaat gggcgggaag cctagaagaa agaaccctca ggaaggcctg	1020
tataacgagc tgcagaagga caagatggcc gaggcctact ccgaaattgg gatgaaggga	1080
gagcggcggg ggggaaaagg gcacgacggc ctgtaccaag gactgtccac cgccaccaag	1140
gacacatacg atgccctgca catgcaggcc cttccccctc gc	1182

<210> 24

<211> 394

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 24

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu

1

5

10

15

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His Ala Ala Arg Pro Pro Gly Trp Phe Leu Asp Ser Pro Asp Arg Pro
20 25 30

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

Asp Asn Ala Thr Phe Thr Cys Ser Phe Ser Asn Thr Ser Glu Ser Phe
50 55 60

Val Leu Asn Trp Tyr Arg Met Ser Pro Ser Asn Gln Thr Asp Lys Leu
65 70 75 80

Ala Ala Phe Pro Glu Asp Arg Ser Gln Pro Gly Gln Asp Cys Arg Phe
85 90 95

Arg Val Thr Gln Leu Pro Asn Gly Arg Asp Phe His Met Ser Val Val
100 105 110

Arg Ala Arg Arg Asn Asp Ser Gly Thr Tyr Leu Cys Gly Ala Ile Ser
115 120 125

Leu Ala Pro Lys Ala Gln Ile Lys Glu Ser Leu Arg Ala Glu Leu Arg
130 135 140

Val Thr Glu Arg Arg Ala Glu Val Pro Thr Ala His Pro Ser Pro Ser
145 150 155 160

Pro Arg Pro Ala Gly Gln Phe Gln Thr Leu Val Thr Thr Thr Pro Ala
165 170 175

Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser
180 185 190

Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr
195 200 205

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Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala
210 215 220

Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys
225 230 235 240

Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
245 250 255

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

Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg
275 280 285

Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn
290 295 300

Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg
305 310 315 320

Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro
325 330 335

Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala
340 345 350

Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His
355 360 365

Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp
370 375 380

Ala Leu His Met Gln Ala Leu Pro Pro Arg
385 390

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<210> 25
<211> 5
<212> PRT
<213> Artificial Sequence

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

<400> 25
Gly Gly Gly Gly Ser
1 5

<210> 26
<211> 30
<212> PRT
<213> Artificial Sequence

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

<220>
<221> misc_feature
<222> (1)..(30)
<223> /note="This sequence may encompass 1-6 'Gly Gly Gly Gly Ser' repeating units, wherein some positions may be absent"

<220>
<221> source
<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 26
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

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<210> 27

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 27

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20

<210> 28

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 28

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 29

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 29

Gly Gly Gly Ser
1

_SL

<210> 30
<211> 5000
<212> DNA
<213> Artificial Sequence

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

<220>
<221> misc_feature
<222> (1)..(5000)
<223> /note="This sequence may encompass 50-5,000 nucleotides,
wherein some positions may be absent"

<220>
<221> source
<223> /note="See specification as filed for detailed description of
substitutions and preferred embodiments"

<400> 30
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720

_SL

[illegible]

_SL

[illegible]

SL

[illegible]

_SL

<210> 31
<211> 100
<212> DNA
<213> Artificial Sequence

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

<400> 31
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

tttttttttt tttttttttt tttttttttt tttttttttt 100

<210> 32
<211> 5000
<212> DNA
<213> Artificial Sequence

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

<220>
<221> misc_feature
<222> (1)..(5000)
<223> /note="This sequence may encompass 50-5,000 nucleotides,
wherein some positions may be absent"

<400> 32
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420

_SL

[illegible]

_SL

[illegible]

_SL

[illegible]

_SL

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	4800
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	4860
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	4920
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	4980
tttttttttt tttttttttt	5000

<210> 33
<211> 5000
<212> DNA
<213> Artificial Sequence

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

<220>
<221> misc_feature
<222> (1)..(5000)
<223> /note="This sequence may encompass 100-5,000 nucleotides,
wherein some positions may be absent"

<400> 33 aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	420
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	480
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	540

_SL

[illegible]

_SL

[illegible]

SL

[illegible]

_SL

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	4920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	4980
aaaaaaaaaa aaaaaaaaaa	5000

<210> 34
 <211> 400
 <212> DNA
 <213> Artificial Sequence

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

<220>
 <221> misc_feature
 <222> (1)..(400)
 <223> /note="This sequence may encompass 100-400 nucleotides, wherein some positions may be absent"

<220>
 <221> source
 <223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 34	
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	400

<210> 35
 <211> 2000
 <212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<220>

<221> misc_feature

<222> (1)..(2000)

<223> /note="This sequence may encompass 50-2,000 nucleotides, wherein some positions may be absent"

<400> 35

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1020

_SL

aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1140
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1260
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1380
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1440
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1500
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1560
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1680
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1800
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1860
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

<210> 36

<211> 230

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 36

Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe

1 5 10 _SL 15
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 20 25 30
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 35 40 45
 Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val
 50 55 60
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser
 65 70 75 80
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 85 90 95
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser
 100 105 110
 Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 115 120 125
 Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln
 130 135 140
 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 145 150 155 160
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 165 170 175
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu
 180 185 190
 Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser

_SL

195

200

205

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
210 215 220

Leu Ser Leu Gly Lys Met
225 230

<210> 37
<211> 690
<212> DNA
<213> Artificial Sequence

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

<400> 37
gagagcaagt acggccctcc ctgccccct tgccctgccc ccgagttcct gggcggaccc 60
agcgtgttcc tgttcccccc caagcccaag gacaccctga tgatcagccg gacccccgag 120
gtgacctgtg tgggtggtgga cgtgtcccag gaggaccccg aggtccagtt caactggtac 180
gtggacggcg tggaggtgca caacgccaag accaagcccc gggaggagca gttcaatagc 240
acctaccggg tgggtgtccgt gctgaccgtg ctgcaccagg actggctgaa cggcaaggaa 300
tacaagtgtg aggtgtccaa caagggcctg cccagcagca tcgagaaaac catcagcaag 360
gccaagggcc agcctcggga gccccagggtg tacaccctgc cccctagcca agaggagatg 420
accaagaacc aggtgtccct gacctgcctg gtgaagggt tctaccccag cgacatcgcc 480
gtggagtggg agagcaacgg ccagcccag aacaactaca agaccacccc ccctgtgctg 540
gacagcgacg gcagcttctt cctgtacagc cggctgaccg tggacaagag ccggtggcag 600
gagggcaacg tctttagctg ctccgtgatg cacgaggccc tgcacaacca ctacaccag 660
aagagcctga gcctgtccct gggcaagatg 690

<210> 38

_SL

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

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

<220>
<221> misc_feature
<222> (1)..(40)
<223> /note="This sequence may encompass 1-10 'Gly Gly Gly Ser' repeating units, wherein some positions may be absent"

<220>
<221> source
<223> /note="See specification as filed for detailed description of substitutions and preferred embodiments"

<400> 38
Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
20 25 30

Gly Gly Gly Ser Gly Gly Gly Ser
35 40

<210> 39
<211> 247
<212> PRT
<213> Artificial Sequence

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

<400> 39
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

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

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

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

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

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

Ala Arg Asp Leu Glu Met Ala Thr Ile Met Gly Gly Tyr Trp Gly Gln
100 105 110

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

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

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

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His
165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Asn Arg Pro
180 185 190

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

_SL

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr
210 215 220

Cys Ser Ser Tyr Thr Ser Ser Ser Thr Leu Asp Val Val Phe Gly Gly
225 230 235 240

Gly Thr Lys Leu Thr Val Leu
245

<210> 40

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 40

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

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

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

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

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

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

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

<210> 41

<211> 247

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

polypeptide" _SL

<400> 41

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

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

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

Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala Thr Pro Gly Thr Tyr Tyr Asp Phe Leu Ser Gly Tyr Tyr Pro
100 105 110

Phe Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Val Met
130 135 140

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

Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala Trp Tyr
165 170 175

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser

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180

185

190

Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
195 200 205

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

Thr Tyr Tyr Cys Gln Gln Leu Asn Ser Tyr Pro Tyr Thr Phe Gly Gln
225 230 235 240

Gly Thr Lys Leu Glu Ile Lys
245

<210> 42

<211> 239

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 42

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

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

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

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

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

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

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

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

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

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

Ser Gly Ser Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
165 170 175

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

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

Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly
210 215 220

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

<210> 43

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

_SL

<221> source

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

<400> 43

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Pro Val Arg Ser Gly
20 25 30

Ser His Tyr Trp Asn Trp Ile Arg Gln Pro Pro Gly Arg Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Glu Asn Arg Val Thr Ile Ser Ile Asp Thr Ser Asn Asn His Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Leu Tyr Phe
85 90 95

Cys Ala Arg Gly Thr Ala Thr Phe Asp Trp Asn Phe Pro Phe Asp Ser
100 105 110

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

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

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

Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn Trp Tyr Gln Gln
165 170 175

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

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

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

Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln Gly Thr
225 230 235 240

Lys Leu Glu Ile Lys
245

<210> 44

<211> 249

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 44

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

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

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

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

Ser Arg Val Thr Ile Ser Val Asp Thr Ser ^{_SL}Lys Asn Gln Phe Ser Leu
 65 70 75 80

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

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

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 115 120 125

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

Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val
 145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn Trp
 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Met Tyr Ala Ala
 180 185 190

Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 210 215 220

Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro Trp Thr Phe
 225 230 235 240

Gly Gln Gly Thr Lys Val Asp Ile Lys
 245

_SL

<210> 45

<211> 255

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 45

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

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

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

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Asp Pro Ser Ser Ser Gly Ser Tyr Tyr Met Glu Asp Ser Tyr
100 105 110

Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
130 135 140

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys

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

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

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

Ala Arg Glu Ala Leu Gly Ser Ser Trp Glu Trp Gly Gln Gly Thr Thr
100 105 110

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

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

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

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

Lys Leu Leu Ile Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser
180 185 190

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

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

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

_SL

<210> 47

<211> 246

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 47

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

Ser Val Lys Val Ser Cys Lys Ala Pro Ala Asn Thr Phe Ser Asp His
20 25 30

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

Gly Tyr Ile His Ala Ala Asn Gly Gly Thr His Tyr Ser Gln Lys Phe
50 55 60

Gln Asp Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Asn Thr Val Tyr
65 70 75 80

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

Ala Arg Gly Gly Tyr Asn Ser Asp Ala Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

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

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

Thr Cys Arg Ala Ser Gln Asp Ile Ser Ser Trp Leu Ala Trp Tyr Gln
165 170 175

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

Leu Gln Ser Gly Val Pro Ser Arg Phe Asn Gly Ser Gly Ser Gly Thr
195 200 205

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

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

Thr Lys Val Glu Ile Lys
245

<210> 48

<211> 248

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 48

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

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

Ser Met Asn Trp Val Arg Gln Ala Pro Gly ^{SL}Lys Gly Leu Glu Trp Val
 35 40 45

Ser Tyr Ile Ser Ser Ser Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Arg Asp Leu Ser Val Arg Ala Ile Asp Ala Phe Asp Ile Trp Gly
 100 105 110

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

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Val
 130 135 140

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

Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp
 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Asp Ala
 180 185 190

Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 195 200 205

Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 210 215 220

Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Tyr	Ser	Thr	Pro	Phe	Thr	Phe	Gly
225					230					235					240

Pro	Gly	Thr	Lys	Val	Glu	Ile	Lys
				245			

<210> 49
 <211> 246
 <212> PRT
 <213> Artificial Sequence

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

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

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

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

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

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

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

Ala	Arg	Glu	Gly	Asn	Glu	Asp	Leu	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

_SL

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

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

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

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

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

Arg Asp Arg Leu Tyr Cys Gly Asn Asn Cys Tyr Leu Tyr Tyr Tyr Tyr
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

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

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile
165 170 175

Ser Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
180 185 190

Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg
195 200 205

_SL

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
210 215 220

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser
225 230 235 240

Thr Pro Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
245 250 255

<210> 51

<211> 247

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 51

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

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

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

Gly Trp Ile Asp Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

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

_SL

Ala Ser Asp Ser Tyr Gly Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

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

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

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

Phe Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Ala Leu Ala Trp Tyr
165 170 175

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

Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
195 200 205

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

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

Gly Thr Lys Val Glu Ile Lys
245

<210> 52

<211> 741

<212> DNA

<213> Artificial Sequence

<220>

<221> source

_SL

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

<400> 52

gaagtgaac tccaacagtc aggcgcagaa gtcaagaagc ccggatcgtc agtgaaagtg	60
tcctgcaaag cctccggcgg aaccttcagc tcctacgcaa tcagctgggt gcggcaggcg	120
cccggacagg gactggagtg gatgggcggt atcattccga tctttggcac cgccaattac	180
gcccagaagt tccagggacg cgtcacaatc accgccgacg aatcgacttc caccgcctac	240
atggagctgt cgtccttgag gagcgaagat accgccgtgt actactgcgc tcgggatctg	300
gagatggcca ctatcatggg gggttactgg ggccagggga ccctggtcac tgtgtcctcg	360
ggaggagggg gatcaggcgg cggcgggtcc gggggaggag gaagccagtc cgcgctgact	420
cagccagctt ccgtgtctgg ttcgccggga cagtccatca ctattagctg taccggcacc	480
agcagcgacg tgggcggcta caactatgtg tcatggtacc agcagcaccg ggggaaggcg	540
cctaagctga tgatctacga cgtgtccaac cgccctagcg gagtgtccaa cagattctcc	600
ggttcgaagt cagggaacac tgcctccctc acgattagcg ggctgcaagc cgaggatgaa	660
gccgactact actgctcctc ctatacctcc tcctcgaccc tggacgtggt gttcggagga	720
ggcaccaagc tcaccgtcct t	741

<210> 53

<211> 735

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 53

gaagtgaat tgggtgaaag cggaggagga gtggtgcaac ctggaggaag cctgagactg	60
tcatgtgccg cctcgggatt cactttcgat gactacgcaa tgcaactgggt ccgccaggcc	120
cccggaaagg gtctggaatg ggtgtccctc atctccggcg atgggggttc cacttactat	180

_SL

gcggattctg tgaagggccg cttcacaatc tcccgggaca attccaagaa cactctgtac	240
cttcaaatga actccctgag ggtggaggac accgctgtgt actactgcgc gagagtgttt	300
gactcgtact atatggacgt ctgggggaaag ggcaccaccg tgaccgtgtc cagcgggtggc	360
ggtggatcgg ggggcggcgg ctccgggagc ggaggttccg agattgtgct gactcagtcg	420
ccgttgtcac tgcctgtcac ccccgggcag ccggcctcca tttcatgccg gtccagccag	480
tccctggtct acaccgatgg gaacacttac ctcaactggt tccagcagcg cccaggacag	540
tccccgcgga ggctgatcta caaagtgtca aaccgggact ccggcgtccc cgatcggttc	600
tcgggaagcg gcagcgacac cgacttcacg ctgaagattt cccgcgtgga agccgaggac	660
gtgggcatct actactgtat gcagggcacc cactggtcgt ttaccttcgg acaaggaaact	720
aggctcgaga tcaag	735

<210> 54

<211> 741

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 54

caagtgcagc ttcaagaaag cgggtccagga ctcgtcaagc catcagaaac tctttccctc	60
acttgtagcg tgtcgggagg cagcatctcc tcgagctcct actactgggg ttggattaga	120
cagcccccg gaaaggggtt ggagtggatc ggttccatct actactccgg gtcgacctac	180
tacaaccctt ccctgaaatc tcgggtgtcc atctccgtcg acacctcaa gaaccagttc	240
agcctgaagc tgaaatatgt gaccgcggcc gatactgccg tgtactattg cgccaccccg	300
ggaacctact acgacttcct ctcgggttac taccgtttt actggggaca ggggactctc	360
gtgaccgtgt cctcgggcgg cggaggttca ggcggtggcg gatcgggggg aggaggctca	420
gacattgtga tgacccagag cccgtccagc ctgagcgcct ccgtgggcga tagggtcacg	480

attacttgcc gggcgtccca gggaatctca agctacctgg cctggtacca acagaagccc	540
ggaaaggcac ccaagttgct gatctatgcc gctagcactc tgcagtccgg ggtgccttcc	600
cgcttctccg gctccggctc gggcaccgac ttcaccctga ccatttcctc actgcaaccc	660
gaggacttcg ccacttacta ctgccagcag ctgaactcct acccttacac attcggacag	720
ggaaccaagc tggaaatcaa g	741

<210> 55
 <211> 717
 <212> DNA
 <213> Artificial Sequence

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

<400> 55	
caagtgaac tcgtggaatc tggaggagga ctcgtgcaac ccggaggatc attgcgactc	60
tcgtgtgcgg catccggctt taccttttca tcctactgga tgtcctgggt cagacaggcc	120
cccggaagg gactggaatg ggtcgcgaac atcaacgagg acggctcggc caagttctac	180
gtggactccg tgaagggccg cttcacgac tcacgggata acgccaagaa ttccctgtat	240
ctgcaaatga acagcctgag ggccgaggac actgcggtgt acttctgcgc acgcgacctg	300
aggccggga gatactgggg acagggcacc ctcgtgaccg tgtcgagcgg aggagggggg	360
tcgggcggcg gcggttccgg tggcggcggg agcgaaattg tggtgacca gtcccctgga	420
accctgagcc tgtcacctgg aggacgcgc accctgtcct gccgggccag ccagagcatc	480
tcagggtcct tcctggcttg gtaccagcag aagccgggac aggctccgag acttctgac	540
tacggcgctt cctcgcgggc gaccggaatc ccgcatcggt tctccggctc gggaagcgga	600
actgacttca ctcttaccat ttccgcctg gagccggaag atttcgccgt gtactactgc	660
cagcagtacg ggcatcccc tccaaccttc ggctgggaa ctaagctgga aatcaaa	717

<210> 56

_SL

<211> 735

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 56

gaagtgaac tccaacaatc cgggtccagga ctcgtcagac cctccgaaac tctctcgctt	60
acatgcactg tgtccggcgg ccctgtgcgg tccggctctc attactggaa ctggattcgc	120
cagcccccg gacgcggact ggagtggatc ggctacatct attactcggg gtcgactaac	180
tacaacccga gcctggaaaa tagagtgacc atctcaatcg acacgtccaa caaccattc	240
tcgctgaagt tgcctccgt gactgccgcc gatactgccc tgtacttctg tgctcgcgga	300
accgccacct tcgactggaa cttccctttt gactcatggg gccaggggac ctttgtgacc	360
gtgtccagcg gaggaggagg ctccggtggt ggcgaggagc gtagcggcgg aagcgacatc	420
cagatgaccc agtcaccgtc ctcgtgtcc gcatccattg gggatcgggt cactattact	480
tgccgggcgt ccaggtccat ctcgtcctac ctgaactggt atcagcagaa gccagggaaa	540
gcccccaagc tgctgatcta cgcggccagc agcctgcagt caggagtgcc ttcaaggttt	600
agcggcagcg gatcgggaac cgacttcacc ctgaccattt cctccctcca acccgaggat	660
ttcgccacct actactgcca gcagtcctac tccaccccgt ggaccttcgg acagggaacc	720
aagctggaga tcaag	735

<210> 57

<211> 747

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 57

_SL

caagtgcaac ttcaagaatc aggcgcagga cttctcaagc catccgaaac actctccctc	60
acttgcgcggtgttacggggg aagcttctcg ggatactact ggtcctggat taggcagcct	120
cccggcaaag gcctggaatg ggtcggggag atcaaccact ccggttcaac caactacaac	180
ccgtcgctga agtcccgctg gaccatttcc gtggacacct ctaagaatca gttcagcctg	240
aagctctcgt ccgtgaccgc ggcggacacc gccgtctact actgcgctcg gggatcagga	300
ctggtggtgt acgcatccg cgtgggctcg ggctgggttcg attactgggg ccagggaacc	360
ctggtcactg tgtcgtccgg cggaggaggt tcggggggcg gagacagcgg tggagggggt	420
agcgacatcc agatgacca gtccccgtcc tcgctgtccg cctccgtggg agatagagt	480
accatcacct gtcgggcatc ccagagcatt tccagctacc tgaactggta tcagcagaag	540
cccggaaagg cccctaagct gttgatgtac gccgccagca gcttgagtc gggcgtgccg	600
agccggtttt ccggttccgg ctccgggact gacttcaccc tgactatctc atccctgcaa	660
cccgaggact tcgccactta ttactgccag cagtcctact caaccctcc ctggacgttc	720
ggacagggca ccaaggtcga tatcaag	747

<210> 58

<211> 765

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 58

gaagtgcaat tgggtggaatc tggaggagga cttgtgaaac ctggtggaag cctgagactt	60
tcctgtgcgg cctcgggatt cactttctcc tcctactcca tgaactgggt cagacaggcc	120
cctgggaagg gactggaatg ggtgtcatcc atctcctcct catcgtcgta catctactac	180
gccgatagcg tgaaggggcg gttcaccatt tcccgggaca acgctaagaa cagcctctat	240
ctgcaaatga attccctccg cgccgaggac actgccgtgt actactgcgc gagggacccc	300

_SL

tcatcaagcg gcagctacta catggaggac tcgtattact acggaatgga cgtctggggc	360
cagggaaacca ctgtgacggt gtcctccggt ggagggggct ccgggggcgg gggatctggc	420
ggaggaggct ccaacttcat gctgacctcag ccgcactccg tgtccgaaag ccccggaaag	480
accgtgacaa tttcctgcac cgggtcctcc ggctcgatcg catcaaacta cgtgcagtgg	540
taccagcagc gcccgggcag cgcacccacc actgtcatct acgaggataa ccagcggccg	600
tcgggtgtcc cagaccggtt ttccggttcg atcgatagca gcagcaacag cgcctccctg	660
accatttccg gcctcaagac cgaggatgag gctgactact actgccagtc gtatgactcc	720
tcgaaccaag tgggtttcgg tggcggcacc aagctgactg tgctg	765

<210> 59

<211> 717

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 59

caagtgaacc tgagagaaag cggcggagga cttgtgcaac ctggaggaag cctgagactg	60
tcatgtgccg cgtccggctt caccttctcg tcctacgaga tgaactgggt ccgccaggca	120
ccgggcaaag gactggaatg ggtgtcctac atttcctcgt ccgggtccac catctattac	180
gccgactccg tgaagggacg gttcaccatc tcccgggaca acgccaagaa ctccctctac	240
ctccaaatga actcactgag ggcagaggac actgcggtct actactgcgc ccgcgaagct	300
ttgggtagct cctgggagtg gggccaggga accactgtga ccgtgtcctc ggggtggaggg	360
ggctccggtg gcgggggttc aggggggtggc ggaagcgata tccagatgac tcagtcacca	420
agctccctga gcgcctcagt gggagatcgg gtcacaatca cgtgccaggc gtcccaggac	480
atttctaact acctcaattg gtaccagcag aagccgggga agggcccca gcttctgac	540
tacgatgcct ccaacctgga aaccggcgtg ccctcccgt tctcgggatc gggcagcggc	600

actgacttca cctttaccat ctcgtccctg caacctgagg acatcgccac ctattactgc 660
cagcagtacg ataacctccc gctgactttc ggaggcggaa ctaagctgga gattaag 717

<210> 60
<211> 738
<212> DNA
<213> Artificial Sequence

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

<400> 60
caagtgaac tcgtccagtc cggcgcagaa gtcaaggaac ccggagcctc cgtgaaagtg 60
tcctgcaaag ctcctgcaa cactttctcg gaccacgtga tgcactgggt gcgccaggcg 120
ccgggccagc gcttcgaatg gatgggatac attcatgccg ccaatggcgg taccactac 180
tcccaaaagt tccaggatag agtcaccatc acccgggaca ccagcgcaa caccgtgtat 240
atggatctgt ccagcctgag gtccgaggat accgccgtgt actactgcgc ccggggcgga 300
tacaactcag acgcgttcga catttgggga cagggtacta tggtcaccgt gtcacccggg 360
ggcgggtggca gcggggggcg aggctctggc ggaggcggat cagggggagg aggggtccgac 420
atcgtgatga ccagtcctc gtcacccgtg tccgcgtccg tgggagacag agtgaccatc 480
acgtgtcgcg ccagccagga catctcctcg tggttggcat ggtaccagca gaagcctgga 540
aaggccccga agctgctcat ctacgccgcc tcctcccttc aatcgggagt gccctcgcgg 600
ttcaacggaa gcggaagcgg gacagatctt accctgacta ttagctcgct gcagcccag 660
gacttcgcta cttactactg ccaacagagc tactccaccc cactgacttt cggcgggggt 720
accaaggctc agatcaag 738

<210> 61
<211> 744
<212> DNA
<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 61

caagtgaac ttgttcaatc cggaggaggt cttgtgcagc ccggaggatc actcagactg	60
tcgtgcgccg cctctgggtt cactttctcc tcatactcga tgaactgggt gcgccaggcg	120
ccgggaaagg gcctggaatg ggtgtcatac atctcctcct catcctccac catctactac	180
gccgattccg tgaagggccg cttcactatt tcccgggaca acgcgaaaaa ctcgctctat	240
ctgcaaatga actccctgcg cgccgaggac accgccgtgt actactgcgc ccgggacctg	300
agcgtgcggg ctattgatgc gttcgacatc tggggacagg gcaccatggg cacagtgtcc	360
agcggaggcg gcggcagcgg tggaggagga tcagggggag gaggttcggg gggcgggtggc	420
tccgatatcg tgctgacca gagcccgtcg agcctctccg cctccgtcgg cgacagagtg	480
accatcacgt gtcaggcatc ccaggacatt agcaactacc tgaattggta ccagcagaag	540
cctggaaagg caccgaagtt gctgatctac gacgcctcca acctggaaac cggagtgcc	600
tccaggttct cgggcagcgg ctcgggaacc gacttcactt ttactatctc ctccctgcaa	660
cccaggatt tcgcgaccta ctactgccag caggcctaca gcaccccttt caccttcggg	720
ccgggaacta aggtcgaaat caag	744

<210> 62

<211> 738

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 62

gaagtgaat tgggtgaatc aggaggagga gtggtcagat ctggaagaag cctgagactg	60
tcatgcgcgg cttcgggcctt taccttcaac tcctacggcc tccactgggt gcgccaggcc	120

_SL

cccggaag gcctcgaatg ggtcgactg attgagtacg acgggtccaa caagtactac	180
ggagatagcg tgaagggccg cttcaccatc tcacgggaca agtccaagtc caccctgtat	240
ctgcaaatgg acaacctgag ggccgaggat actgccgtgt actactgcgc ccgcgaagga	300
aacgaagatc tggccttcga tatttggggc cagggtactc ttgtgaccgt gtcgagcgga	360
ggcggaggct ccggtggagg aggatcgggg ggtggtggtt ccggcggcgg ggggagcgaa	420
atcgtgctga ccagtcgcc ttctccctc tccgcttcg tgggggaccg ggtcactatt	480
acgtgtcagg cgtcccaatt catcaagaag aatctgaact ggtaccagca caagccggga	540
aaggcccca aactgctcat ctacgacgcc agctcgctgc agactggcgt gccttcccgg	600
ttttccggga accggtcggg aaccaccttc tcattcacca tcagcagcct ccagccggag	660
gacgtggcga cctactactg ccagcagcat gacaaccttc cactgacttt cggcgggggc	720
accaaggtcg agattaag	738

<210> 63

<211> 765

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 63

caagtgaac tcgtggaatc aggcggagga ctcgtgcaac ccggagggttc ccttagactg	60
tcattgtccg cttccgggtt caatgtgtcc agcaactaca tgacctgggt cagacaggcg	120
ccgggaaagg gacttgaatg ggtgtccgtg atctactccg gtggagcaac atactacgga	180
gactccgtga aaggccgctt taccgtgtcc cgcgataact cgaagaacac cgtgtacttg	240
cagatgaaca ggctgactgc cgaggacacc gccgtgtatt attgcgcccg ggacaggctg	300
tactgtggaa acaactgcta cctgtactac tactacggga tggacgtgtg gggacagggc	360
actctcgtca ctgtgtcatc cggggggggc ggtagcgggtg gcggagggtc cggcggagga	420

_SL

ggctcagggg gaggcggaag cgatatccag gtcacccagt ctccctcctc gctgtccgcc	480
tccgtggggcg accgcgtcac cattacttgc cgggcgtcgc agtcgatcag ctcctacctg	540
aactgggtacc agcagaagcc tggaaaggcc ccgaagctgc tgatctacgc ggccctcgtcc	600
ctgcaaagcg gcgtcccgtc gcggttcagc ggttccgggt cgggaaccga cttcaccttg	660
actatttcct ccctgcaacc cgaggatttc gccacttact actgccagca gtcctactcc	720
acccacctc tgaccttcgg ccaaggaacc aaggtcgaaa tcaag	765

<210> 64

<211> 741

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 64

caagtgaac tcgtccagtc cgggtgcagaa gtgaaaaaga gcggagcctc agtgaaagtg	60
tcctgcaagg cctccggtta ccccttcact ggatactaca ttcagtgggt ccgccaagcc	120
ccgggacagg gtctggagtg gatgggggtg attgacccta actcgggaaa tacgggatac	180
gcgcagaagt tccagggccg cgtgaccatg accaggaaca cctcgatcag caccgcctac	240
atggaactgt cctccctgcg gtcggaggat actgccgtgt actactgcgc ctccgattcc	300
tatgggtact actacggaat ggacgtctgg ggacagggca ccctcgtgac cgtgtcctcg	360
ggaggcggag ggagcggcgg ggggtggatcg ggaggaggcg gctccggcgg cggcggtagc	420
gacatccaga tgacccagtc accatcaagc cttagcgcct ccgtgggcga cagagtgaca	480
ttcacttgtc gggcgtccca gggaatctcc tccgctctgg cttggtatca gcagaagcct	540
gggaagcctc cgaagctgtt gatctacgac gcgagcagcc tggaatcagg ggtgccctcc	600
cggttttccg ggtccgggtc tggcaccgat ttcaccctga ccatttcgtc cctccaaccc	660
gaggacttcg ccacttacta ctgccagcag ttcaacaact acccgctgac cttcggagga	720

ggcactaagg tcgagatcaa g

<210> 65

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 65

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

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

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

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

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

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

Ala Arg Asp Leu Glu Met Ala Thr Ile Met Gly Gly Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 66

<211> 118

_SL

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 66

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

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

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

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

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 67

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<221> source

_SL

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

<400> 67

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

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

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

Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60

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

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

Cys Ala Thr Pro Gly Thr Tyr Tyr Asp Phe Leu Ser Gly Tyr Tyr Pro
100 105 110

Phe Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 68

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 68

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

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

<210> 69
 <211> 123
 <212> PRT
 <213> Artificial Sequence

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

<400> 69
 Glu Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Arg Pro Ser Glu
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Pro Val Arg Ser Gly
 20 25 30

_SL

Ser His Tyr Trp Asn Trp Ile Arg Gln Pro Pro Gly Arg Gly Leu Glu
35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser
50 55 60

Leu Glu Asn Arg Val Thr Ile Ser Ile Asp Thr Ser Asn Asn His Phe
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Leu Tyr Phe
85 90 95

Cys Ala Arg Gly Thr Ala Thr Phe Asp Trp Asn Phe Pro Phe Asp Ser
100 105 110

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

<210> 70

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 70

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

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

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

_SL

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

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

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

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

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 71

<211> 129

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 71

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

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

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

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Asp Pro Ser Ser Ser Gly Ser Tyr Tyr Met Glu Asp Ser Tyr
100 105 110

Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser
115 120 125

Ser

<210> 72
<211> 117
<212> PRT
<213> Artificial Sequence

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

<400> 72
Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr

65 70 75 80

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

85 90 95

Ala Arg Glu Ala Leu Gly Ser Ser Trp Glu Trp Gly Gln Gly Thr Thr

100 105 110

Val Thr Val Ser Ser

115

_SL

Ala Arg Gly Gly Tyr Asn Ser Asp Ala Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser
115

<210> 74
<211> 121
<212> PRT
<213> Artificial Sequence

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

<400> 74
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Tyr Ile Ser Ser Ser Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Asp Leu Ser Val Arg Ala Ile Asp Ala Phe Asp Ile Trp Gly
100 105 110

_SL

Gln Gly Thr Met Val Thr Val Ser Ser
115 120

<210> 75

<211> 119

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 75

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

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

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

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

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

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

Ala Arg Glu Gly Asn Glu Asp Leu Ala Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

_SL

<210> 76

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 76

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

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

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

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

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

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

Arg Asp Arg Leu Tyr Cys Gly Asn Asn Cys Tyr Leu Tyr Tyr Tyr Tyr
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 77

<211> 120

<212> PRT

<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 77

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

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

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

Gly Trp Ile Asp Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

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

Ala Ser Asp Ser Tyr Gly Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 78

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

_SL

<400> 78

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

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

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

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

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

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

Ser Thr Leu Asp Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 79

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 79

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

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val Tyr Thr
20 25 30

Asp Gly Asn Thr Tyr Leu Asn Trp Phe Gln ^{SL}Gln Arg Pro Gly Gln Ser
 35 40 45

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

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

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

Thr His Trp Ser Phe Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 80
 <211> 107
 <212> PRT
 <213> Artificial Sequence

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

<400> 80
 Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

_SL

<210> 82
<211> 107
<212> PRT
<213> Artificial Sequence

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

<400> 82
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

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

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

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

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

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

<210> 83
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<221> source

_SL

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

<400> 83

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

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

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

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

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

Trp Thr Phe Gly Gln Gly Thr Lys Val Asp Ile Lys
100 105

<210> 84

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 84

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

Thr Val Thr Ile Ser Cys Thr Gly Ser Ser Gly Ser Ile Ala Ser Asn

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20

25

30

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val
35 40 45

Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

Ser Asn Gln Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 85

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 85

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn Tyr
20 25 30

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

Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

_SL

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

Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Asn Leu Pro Leu
85 90 95

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

<210> 86

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 86

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ser Trp
20 25 30

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

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

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

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

_SL

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

<210> 87

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 87

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn Tyr
20 25 30

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

Tyr Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

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

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

<210> 88

<211> 107

<212> PRT

<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 88

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Phe Ile Lys Lys Asn
20 25 30

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

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

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

Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln His Asp Asn Leu Pro Leu
85 90 95

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

<210> 89

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 89

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

_SL

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

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

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

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

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

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

<210> 90

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 90

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

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

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

_SL

Tyr Asp Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

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

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

<210> 91

<211> 491

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 91

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly
35 40 45

Thr Phe Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln
50 55 60

Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn
65 70 75 80

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

Ala	Pro	Arg	Pro	Pro	Thr	Pro	Ala	Pro	Thr	^{SL} Ile	Ala	Ser	Gln	Pro	Leu
		275					280					285			
Ser	Leu	Arg	Pro	Glu	Ala	Cys	Arg	Pro	Ala	Ala	Gly	Gly	Ala	Val	His
		290				295					300				
Thr	Arg	Gly	Leu	Asp	Phe	Ala	Cys	Asp	Ile	Tyr	Ile	Trp	Ala	Pro	Leu
305					310					315				320	
Ala	Gly	Thr	Cys	Gly	Val	Leu	Leu	Leu	Ser	Leu	Val	Ile	Thr	Leu	Tyr
				325					330					335	
Cys	Lys	Arg	Gly	Arg	Lys	Lys	Leu	Leu	Tyr	Ile	Phe	Lys	Gln	Pro	Phe
			340					345					350		
Met	Arg	Pro	Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp	Gly	Cys	Ser	Cys	Arg
		355					360					365			
Phe	Pro	Glu	Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	Arg	Val	Lys	Phe	Ser
		370				375					380				
Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly	Gln	Asn	Gln	Leu	Tyr
385					390					395				400	
Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val	Leu	Asp	Lys
				405					410					415	
Arg	Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg	Arg	Lys	Asn
			420					425					430		
Pro	Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys	Met	Ala	Glu
		435					440					445			
Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	Gly	Lys	Gly
	450					455					460				

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr ^{_SL}Ala Thr Lys Asp Thr Tyr
 465 470 475 480

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 485 490

<210> 92
 <211> 489
 <212> PRT
 <213> Artificial Sequence

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

<400> 92
 Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
 1 5 10 15

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

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
 35 40 45

Thr Phe Asp Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys
 50 55 60

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

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
 85 90 95

Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr
 100 105 110

Ala Val Tyr Tyr Cys Ala Arg Val Phe Asp Ser Tyr Tyr Met Asp Val

_SL

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

305		310		<u>SL</u> 315		320									
Thr	Cys	Gly	Val	Leu	Leu	Leu	Ser	Leu	Val	Ile	Thr	Leu	Tyr	Cys	Lys
				325					330					335	
Arg	Gly	Arg	Lys	Lys	Leu	Leu	Tyr	Ile	Phe	Lys	Gln	Pro	Phe	Met	Arg
			340					345					350		
Pro	Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp	Gly	Cys	Ser	Cys	Arg	Phe	Pro
		355					360					365			
Glu	Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	Arg	Val	Lys	Phe	Ser	Arg	Ser
	370					375					380				
Ala	Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly	Gln	Asn	Gln	Leu	Tyr	Asn	Glu
385					390					395					400
Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val	Leu	Asp	Lys	Arg	Arg
				405					410					415	
Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg	Arg	Lys	Asn	Pro	Gln
			420					425					430		
Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys	Met	Ala	Glu	Ala	Tyr
		435					440					445			
Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	Gly	Lys	Gly	His	Asp
	450					455					460				
Gly	Leu	Tyr	Gln	Gly	Leu	Ser	Thr	Ala	Thr	Lys	Asp	Thr	Tyr	Asp	Ala
465					470					475					480
Leu	His	Met	Gln	Ala	Leu	Pro	Pro	Arg							
				485											

<210> 93

_SL

<211> 491

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 93

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

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

Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro
50 55 60

Gly Lys Gly Leu Glu Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr
65 70 75 80

Tyr Tyr Asn Pro Ser Leu Lys Ser Arg Val Ser Ile Ser Val Asp Thr
85 90 95

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

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

Ser Gly Tyr Tyr Pro Phe Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
130 135 140

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
145 150 155 160

_SL

Ser Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
165 170 175

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser
180 185 190

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
195 200 205

Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
210 215 220

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
225 230 235 240

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Leu Asn Ser Tyr Pro
245 250 255

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Thr Thr Thr Pro
260 265 270

Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu
275 280 285

Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His
290 295 300

Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu
305 310 315 320

Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr
325 330 335

Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe
340 345 350

_SL

Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg
355 360 365

Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser
370 375 380

Arg Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr
385 390 395 400

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
405 410 415

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
420 425 430

Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
435 440 445

Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
450 455 460

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr
465 470 475 480

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
485 490

<210> 94

<211> 483

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

_SL

<400> 94

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Ser Ser Tyr Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys
50 55 60

Gly Leu Glu Trp Val Ala Asn Ile Asn Glu Asp Gly Ser Ala Lys Phe
65 70 75 80

Tyr Val Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Phe Cys Ala Arg Asp Leu Arg Ser Gly Arg Tyr Trp Gly
115 120 125

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
130 135 140

Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Leu Thr Gln Ser Pro
145 150 155 160

Gly Thr Leu Ser Leu Ser Pro Gly Gly Arg Ala Thr Leu Ser Cys Arg
165 170 175

Ala Ser Gln Ser Ile Ser Gly Ser Phe Leu Ala Trp Tyr Gln Gln Lys
180 185 190

_SL

Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala
195 200 205

Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
210 215 220

Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr
225 230 235 240

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

Leu Glu Ile Lys Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala
260 265 270

Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg
275 280 285

Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys
290 295 300

Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu
305 310 315 320

Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu
325 330 335

Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln
340 345 350

Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly
355 360 365

Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
370 375 380

_SL

Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
385 390 395 400

Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
405 410 415

Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu
420 425 430

Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys
435 440 445

Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu
450 455 460

Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu
465 470 475 480

Pro Pro Arg

<210> 95

<211> 489

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 95

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

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

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

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro ^{_SL}Arg Arg Lys Asn Pro Gln
420 425 430

Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
435 440 445

Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
450 455 460

Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
465 470 475 480

Leu His Met Gln Ala Leu Pro Pro Arg
485

<210> 96
<211> 493
<212> PRT
<213> Artificial Sequence

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

<400> 96
Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Leu Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly
35 40 45

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

Gly Leu Glu Trp Val Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr

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

_SL

260		265		270											
Thr	Pro	Ala	Pro	Arg	Pro	Pro	Thr	Pro	Ala	Pro	Thr	Ile	Ala	Ser	Gln
		275					280					285			
Pro	Leu	Ser	Leu	Arg	Pro	Glu	Ala	Cys	Arg	Pro	Ala	Ala	Gly	Gly	Ala
	290					295					300				
Val	His	Thr	Arg	Gly	Leu	Asp	Phe	Ala	Cys	Asp	Ile	Tyr	Ile	Trp	Ala
305					310					315					320
Pro	Leu	Ala	Gly	Thr	Cys	Gly	Val	Leu	Leu	Leu	Ser	Leu	Val	Ile	Thr
				325					330					335	
Leu	Tyr	Cys	Lys	Arg	Gly	Arg	Lys	Lys	Leu	Leu	Tyr	Ile	Phe	Lys	Gln
			340					345					350		
Pro	Phe	Met	Arg	Pro	Val	Gln	Thr	Thr	Gln	Glu	Glu	Asp	Gly	Cys	Ser
		355					360					365			
Cys	Arg	Phe	Pro	Glu	Glu	Glu	Glu	Gly	Gly	Cys	Glu	Leu	Arg	Val	Lys
	370					375					380				
Phe	Ser	Arg	Ser	Ala	Asp	Ala	Pro	Ala	Tyr	Lys	Gln	Gly	Gln	Asn	Gln
385					390					395					400
Leu	Tyr	Asn	Glu	Leu	Asn	Leu	Gly	Arg	Arg	Glu	Glu	Tyr	Asp	Val	Leu
				405					410					415	
Asp	Lys	Arg	Arg	Gly	Arg	Asp	Pro	Glu	Met	Gly	Gly	Lys	Pro	Arg	Arg
			420					425					430		
Lys	Asn	Pro	Gln	Glu	Gly	Leu	Tyr	Asn	Glu	Leu	Gln	Lys	Asp	Lys	Met
		435					440					445			
Ala	Glu	Ala	Tyr	Ser	Glu	Ile	Gly	Met	Lys	Gly	Glu	Arg	Arg	Arg	Gly

450

455

_SL

460

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
 465 470 475 480

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 485 490

<210> 97

<211> 499

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 97

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
 1 5 10 15

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

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

Thr Phe Ser Ser Tyr Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys
 50 55 60

Gly Leu Glu Trp Val Ser Ser Ile Ser Ser Ser Ser Tyr Ile Tyr
 65 70 75 80

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
 85 90 95

Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
 100 105 110

_SL

Ala Val Tyr Tyr Cys Ala Arg Asp Pro Ser Ser Ser Gly Ser Tyr Tyr
115 120 125

Met Glu Asp Ser Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
130 135 140

Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
145 150 155 160

Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val Ser
165 170 175

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Gly Ser Ser Gly
180 185 190

Ser Ile Ala Ser Asn Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser
195 200 205

Ala Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val
210 215 220

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser
225 230 235 240

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys
245 250 255

Gln Ser Tyr Asp Ser Ser Asn Gln Val Val Phe Gly Gly Gly Thr Lys
260 265 270

Leu Thr Val Leu Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala
275 280 285

Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg
290 295 300

_SL

Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys
305 310 315 320

Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu
325 330 335

Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu
340 345 350

Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln
355 360 365

Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly
370 375 380

Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
385 390 395 400

Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
405 410 415

Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
420 425 430

Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu
435 440 445

Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys
450 455 460

Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu
465 470 475 480

Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu
485 490 495

_SL

Pro Pro Arg

<210> 98

<211> 483

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 98

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Ser Ser Tyr Glu Met Asn Trp Val Arg Gln Ala Pro Gly Lys
50 55 60

Gly Leu Glu Trp Val Ser Tyr Ile Ser Ser Ser Gly Ser Thr Ile Tyr
65 70 75 80

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Ala Arg Glu Ala Leu Gly Ser Ser Trp Glu Trp
115 120 125

_SL

Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser
145 150 155 160

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
165 170 175

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys
180 185 190

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asn Leu Glu
195 200 205

Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
210 215 220

Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr
225 230 235 240

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

Leu Glu Ile Lys Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala
260 265 270

Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg
275 280 285

Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys
290 295 300

Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu
305 310 315 320

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Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu
325 330 335

Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln
340 345 350

Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly
355 360 365

Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
370 375 380

Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
385 390 395 400

Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
405 410 415

Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu
420 425 430

Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys
435 440 445

Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu
450 455 460

Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu
465 470 475 480

Pro Pro Arg

<210> 99

<211> 490

<212> PRT

_SL

<213> Artificial Sequence

<220>

<221> source

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

<400> 99

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Lys Glu Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Pro Ala Asn
35 40 45

Thr Phe Ser Asp His Val Met His Trp Val Arg Gln Ala Pro Gly Gln
50 55 60

Arg Phe Glu Trp Met Gly Tyr Ile His Ala Ala Asn Gly Gly Thr His
65 70 75 80

Tyr Ser Gln Lys Phe Gln Asp Arg Val Thr Ile Thr Arg Asp Thr Ser
85 90 95

Ala Asn Thr Val Tyr Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Ala Arg Gly Gly Tyr Asn Ser Asp Ala Phe Asp
115 120 125

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
145 150 155 160

Asp Ile Val Met Thr Gln Ser Pro Ser Ser ^{SL}Val Ser Ala Ser Val Gly
 165 170 175

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ser Trp
 180 185 190

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 195 200 205

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Asn Gly
 210 215 220

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 225 230 235 240

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Leu
 245 250 255

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Thr Thr Thr Pro Ala
 260 265 270

Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser
 275 280 285

Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr
 290 295 300

Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala
 305 310 315 320

Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys
 325 330 335

Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
 340 345 350

Arg Pro Val Gln Thr Thr Gln Glu Glu Asp ^{SL}Gly Cys Ser Cys Arg Phe
 355 360 365

Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg
 370 375 380

Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn
 385 390 395 400

Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg
 405 410 415

Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro
 420 425 430

Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala
 435 440 445

Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His
 450 455 460

Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp
 465 470 475 480

Ala Leu His Met Gln Ala Leu Pro Pro Arg
 485 490

<210> 100
 <211> 492
 <212> PRT
 <213> Artificial Sequence

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

<400> 100
 Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu

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

_SL

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

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

Tyr Gly Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Lys Ser
85 90 95

Lys Ser Thr Leu Tyr Leu Gln Met Asp Asn Leu Arg Ala Glu Asp Thr
100 105 110

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

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
145 150 155 160

Glu Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
165 170 175

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Phe Ile Lys Lys Asn
180 185 190

Leu Asn Trp Tyr Gln His Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
195 200 205

Tyr Asp Ala Ser Ser Leu Gln Thr Gly Val Pro Ser Arg Phe Ser Gly
210 215 220

Asn Arg Ser Gly Thr Thr Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro
225 230 235 240

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Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln His Asp Asn Leu Pro Leu
245 250 255

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Thr Thr Thr Pro Ala
260 265 270

Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser
275 280 285

Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr
290 295 300

Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala
305 310 315 320

Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys
325 330 335

Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
340 345 350

Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe
355 360 365

Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg
370 375 380

Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn
385 390 395 400

Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg
405 410 415

Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro
420 425 430

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Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala
435 440 445

Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His
450 455 460

Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp
465 470 475 480

Ala Leu His Met Gln Ala Leu Pro Pro Arg
485 490

<210> 102

<211> 499

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 102

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Asn Val Ser Ser Asn Tyr Met Thr Trp Val Arg Gln Ala Pro Gly Lys
50 55 60

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

_SL

Gly Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys
85 90 95

Asn Thr Val Tyr Leu Gln Met Asn Arg Leu Thr Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ala Arg Asp Arg Leu Tyr Cys Gly Asn Asn Cys Tyr
115 120 125

Leu Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val
130 135 140

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
145 150 155 160

Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Val Thr Gln Ser Pro
165 170 175

Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg
180 185 190

Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro
195 200 205

Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser
210 215 220

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
225 230 235 240

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
245 250 255

Gln Gln Ser Tyr Ser Thr Pro Pro Leu Thr Phe Gly Gln Gly Thr Lys
260 265 270

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Val Glu Ile Lys Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala
275 280 285

Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg
290 295 300

Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys
305 310 315 320

Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu
325 330 335

Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu
340 345 350

Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln
355 360 365

Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly
370 375 380

Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr
385 390 395 400

Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg
405 410 415

Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met
420 425 430

Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu
435 440 445

Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys
450 455 460

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Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu
465 470 475 480

Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu
485 490 495

Pro Pro Arg

<210> 103

<211> 491

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 103

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Lys Lys Ser Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr
35 40 45

Pro Phe Thr Gly Tyr Tyr Ile Gln Trp Val Arg Gln Ala Pro Gly Gln
50 55 60

Gly Leu Glu Trp Met Gly Trp Ile Asp Pro Asn Ser Gly Asn Thr Gly
65 70 75 80

Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser
85 90 95

Ile	Ser	Thr	Ala	Tyr	Met	Glu	Leu	Ser	Ser	^{SL} Leu	Arg	Ser	Glu	Asp	Thr
			100					105					110		
Ala	Val	Tyr	Tyr	Cys	Ala	Ser	Asp	Ser	Tyr	Gly	Tyr	Tyr	Tyr	Gly	Met
		115					120					125			
Asp	Val	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly
	130					135					140				
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly
145					150					155					160
Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
			165					170						175	
Gly	Asp	Arg	Val	Thr	Phe	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Ser	Ser
		180					185						190		
Ala	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Pro	Pro	Lys	Leu	Leu
		195					200					205			
Ile	Tyr	Asp	Ala	Ser	Ser	Leu	Glu	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	210					215					220				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
225					230					235					240
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Phe	Asn	Asn	Tyr	Pro
			245					250						255	
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Thr	Thr	Thr	Pro
		260					265						270		
Ala	Pro	Arg	Pro	Pro	Thr	Pro	Ala	Pro	Thr	Ile	Ala	Ser	Gln	Pro	Leu
		275					280					285			

Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala ^{_SL}Ala Gly Gly Ala Val His
 290 295 300

Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu
 305 310 315 320

Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr
 325 330 335

Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe
 340 345 350

Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg
 355 360 365

Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser
 370 375 380

Arg Ser Ala Asp Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr
 385 390 395 400

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
 405 410 415

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
 420 425 430

Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
 435 440 445

Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
 450 455 460

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr
 465 470 475 480

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
485 490

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<210> 104
<211> 1473
<212> DNA
<213> Artificial Sequence
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<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polynucleotide"
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<400>	104						
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cccgaagtgc	aactccaaca	gtcaggcgca	gaagtcaaga	agcccggatc	gtcagtgaaa		120
gtgtcctgca	aagcctccgg	cggaaccttc	agctcctacg	caatcagctg	ggtgcggcag		180
gcgcccggac	agggactgga	gtggatgggc	ggtatcattc	cgatctttgg	caccgccaat		240
tacgcccaga	agttccaggg	acgcgtcaca	atcaccgccg	acgaatcgac	ttccaccgcc		300
tacatggagc	tgtcgtcctt	gaggagcgaa	gataccgccg	tgtactactg	cgctcgggat		360
ctggagatgg	ccactatcat	gggggggttac	tggggccagg	ggaccctggg	cactgtgtcc		420
tcgggaggag	ggggatcagg	cggcggcggt	tccgggggag	gaggaagcca	gtccgcgctg		480
actcagccag	cttccgtgtc	tggttcgccg	ggacagtcca	tcactattag	ctgtaccggc		540
accagcagcg	acgtgggcgg	ctacaactat	gtgtcatggg	accagcagca	cccggggaag		600
gcgcctaagc	tgatgatcta	cgacgtgtcc	aaccgcccta	gcggagtgtc	caacagattc		660
tccggttcga	agtcagggaa	cactgcctcc	ctcacgatta	gcgggctgca	agccgaggat		720
gaagccgact	actactgctc	ctcctatacc	tcctcctcga	ccctggacgt	ggtgttcgga		780
ggaggcacca	agctcaccgt	ccttaccact	accccagcac	cgaggccacc	caccccggtc		840
cctaccatcg	cctcccagcc	tctgtccctg	cgtccggagg	catgtagacc	cgcagctggg		900
ggggccgtgc	ataccggggg	tcttgacttc	gcctgcgata	tctacatttg	ggcccctctg		960
gctgggtactt	gcgggggtcct	gctgctttca	ctcgtgatca	ctctttactg	taagcgcggg		1020

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cggaagaagc tgctgtacat ctttaagcaa cccttcatga ggcctgtgca gactactcaa 1080
gaggaggacg gctgttcatg ccggttccca gaggaggagg aaggcggctg cgaactgcgc 1140
gtgaaattca gccgcagcgc agatgctcca gcctacaagc aggggcagaa ccagctctac 1200
aacgaactca atcttggctg gagagaggag tacgacgtgc tggacaagcg gagaggacgg 1260
gaccagaaaa tgggcgggaa gccgcgcaga aagaatcccc aagagggcct gtacaacgag 1320
ctccaaaagg ataagatggc agaagcctat agcgagattg gtatgaaagg ggaacgcaga 1380
agaggcaaag gccacgacgg actgtaccag ggactcagca ccgccaccaa ggacacctat 1440
gacgtcttcc acatgcaggc cctgccgcct cgg 1473

<210> 105

<211> 1467

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 105

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cccgaagtgc aattggtgga aagcggagga ggagtgggtgc aacctggagg aagcctgaga 120
ctgtcatgtg ccgcctcggg attcactttc gatgactacg caatgcactg ggtccgccag 180
gccccgggaa agggctctgga atgggtgtcc ctcatctccg gcgatggggg ttccacttac 240
tatgcggatt ctgtgaaggg ccgcttcaca atctcccgga acaattccaa gaacactctg 300
taccttcaaa tgaactccct gaggggtggag gacaccgctg tgtactactg cgcgagagtg 360
tttgactcgt actatatgga cgtctgggga aagggcacca ccgtgaccgt gtccagcggg 420
ggcgggtggat cggggggcgg cggctccggg agcggagggt ccgagattgt gctgactcag 480
tcgccgttgt cactgcctgt caccgccggg cagccggcct ccatttcatg ccggtccagc 540
cagtccttgg tctacaccga tgggaacact tacctcaact ggttccagca gcgcccagga 600

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cagtccccgc ggaggctgat ctacaaagtg tcaaaccggg actccggcgt ccccgatcgg 660
ttctcgggaa gcggcagcga caccgacttc acgctgaaga tttcccgcgt ggaagccgag 720
gacgtgggca tctactactg tatgcagggc acccactggg cgtttacctt cggacaagga 780
actaggctcg agatcaagac cactacccca gcaccgaggc caccaccccc ggctcctacc 840
atgcctccc agcctctgtc cctgcgtccg gaggcattga gaccgcagc tgggtggggcc 900
gtgcataccc ggggtcttga cttgcctgc gatatttaca tttgggcccc tctggctggg 960
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aagctgctgt acatctttaa gcaacccttc atgaggcctg tgcagactac tcaagaggag 1080
gacggctgtt catgccggtt cccagaggag gaggaaggcg gctgcgaact gcgcgtgaaa 1140
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ctcaatcttg gtcggagaga ggagtacgac gtgctggaca agcggagagg acgggaccca 1260
gaaatgggcg ggaagccgcg cagaaagaat cccaagagg gcctgtacaa cgagctccaa 1320
aaggataaga tggcagaagc ctatagcgag attggtatga aaggggaacg cagaagaggc 1380
aaaggccacg acggactgta ccagggactc agcaccgcca ccaaggacac ctatgacgct 1440
cttcacatgc aggccctgcc gcctcgg 1467

<210> 106

<211> 1473

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 106

atggccctcc ctgtaccgc cctgctgctt ccgctggctc ttctgctcca cgccgctcgg 60
ccccaagtgc agcttcaaga aagcgggtcca ggactcgtca agccatcaga aactctttcc 120
ctcacttgta ccgtgtcggg aggcagcatc tcctcgagct cctactactg gggttggatt 180

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agacagcccc cgggaaaggg gttggagtgg atcgggttcca tctactactc cgggtcgacc 240
tactacaacc cttccctgaa atctcgggtg tccatctccg tcgacacctc caagaaccag 300
ttcagcctga agctgaaata tgtgaccgcg gccgatactg ccgtgtacta ttgcgccacc 360
ccgggaacct actacgactt cctctcgggg tactaccctt tttactgggg acaggggact 420
ctcgtgaccg tgtcctcggg cggcggaggt tcaggcgggtg gcggatcggg gggaggaggc 480
tcagacattg tgatgacca gagcccgctc agcctgagcg cctccgtggg cgatagggtc 540
acgattactt gccgggcgtc ccagggaatc tcaagctacc tggcctggta ccaacagaag 600
cccggaaagg cacccaagtt gctgatctat gccgctagca ctctgcagtc cggggtgcct 660
tcccgtttct ccggctccgg ctcgggcacc gacttcaccc tgaccatttc ctactgcaa 720
cccgaggact tcgccactta ctactgccag cagctgaact cctaccctta cacattcgga 780
cagggaacca agctggaaat caagaccact accccagcac cgaggccacc caccgccgct 840
cctaccatcg cctcccagcc tctgtccctg cgtccggagg catgtagacc cgcagctggt 900
ggggccgtgc ataccggggg tcttgacttc gcctgcgata tctacatttg ggccccctctg 960
gctggtactt gcggggctct gctgctttca ctcgtgatca ctctttactg taagcgcggt 1020
cggaagaagc tgctgtacat ctttaagcaa cccttcatga ggctgtgca gactactcaa 1080
gaggaggacg gctgttcatg ccggttccca gaggaggagg aaggcggctg cgaactgcgc 1140
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aacgaactca atcttggtcg gagagaggag tacgacgtgc tggacaagcg gagaggacgg 1260
gaccagaaaa tgggcgggaa gccgcgcaga aagaatcccc aagagggcct gtacaacgag 1320
ctccaaaagg ataagatggc agaagcctat agcgagattg gtatgaaagg ggaacgcaga 1380
agaggcaaag gccacgacgg actgtaccag ggactcagca ccgccacca ggacacctat 1440
gacgtcttcc acatgcaggc cctgccgcct cgg 1473

<210> 107

<211> 1449

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 107

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ctctcgtgtg cggcatccgg ctttaccttt tcatcctact ggatgtcctg ggtcagacag	180
gccccggga agggactgga atgggtcgcg aacatcaacg aggacggctc ggccaagttc	240
tacgtggact ccgtgaaggg ccgcttcacg atctcacggg ataacgcaa gaattccctg	300
tatctgcaaa tgaacagcct gagggccgag gacactgcgg tgtacttctg cgcacgcgac	360
ctgagggtccg ggagatactg gggacagggc accctcgtga ccgtgtcgag cggaggagg	420
gggtcgggcg gcggcggttc cggtagcgaa ttgtgttgac ccagtcccct	480
ggaaccctga gcctgtcacc tggaggacgc gccaccctgt cctgccgggc cagccagagc	540
atctcagggt cttcctggc ttggtaccag cagaagccgg gacaggctcc gagacttctg	600
atctacggcg cctcctcgc ggcgaccgga atcccgatc ggttctccgg ctcggaagc	660
ggaactgact tcaactttac catttcccgc ctggagccgg aagatttcgc cgtgtactac	720
tgccagcagt acgggtcatc ccctccaacc ttcggcctgg gaactaagct ggaaatcaaa	780
accactaccc cagcaccgag gccaccacc ccggctccta ccatgcctc ccagcctctg	840
tccctgcgtc cggaggcatg tagaccgca gctgggtggg ccgtgcatac ccggggtctt	900
gacttcgcct gcgatatcta catttgggcc cctctggctg gtacttgagg ggtcctgctg	960
ctttcactcg tgatcactct ttactgtaag cgcggctcga agaagctgct gtacatcttt	1020
aagcaaccct tcatgaggcc tgtgcagact actcaagagg aggacggctg ttcatgccgg	1080
ttcccagagg aggaggaagg cggctgcgaa ctgcgcgtga aattcagccg cagcgcagat	1140
gctccagcct acaagcagg gcagaaccag ctctacaacg aactcaatct tggtcggaga	1200

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gaggagtacg acgtgctgga caagcggaga ggacgggacc cagaaatggg cgggaagccg	1260
cgcagaaaga atccccaaga gggcctgtac aacgagctcc aaaaggataa gatggcagaa	1320
gcctatagcg agattggtat gaaaggggaa cgcagaagag gcaaaggcca cgacggactg	1380
taccagggac tcagcaccgc caccaaggac acctatgacg ctcttcacat gcaggccctg	1440
ccgcctcgg	1449

<210> 108

<211> 1467

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 108

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cttacatgca ctgtgtccgg cggccctgtg cgggtccggct ctcattactg gaactggatt	180
cgccagcccc cgggacgcgg actggagtgg atcggtaca tctattactc ggggtcgact	240
aactacaacc cgagcctgga aaatagagtg accatctcaa tcgacacgtc caacaaccac	300
ttctcgctga agttgtcctc cgtgactgcc gccgatactg ccctgtactt ctgtgctcgc	360
ggaaccgcca ccttcgactg gaacttcctt tttgactcat ggggccaggg gacccttggtg	420
accgtgtcca gcggaggagg aggctccggt ggtggcggga gcggtagcgg cggaagcgac	480
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tttagcggca gcggatcggg aaccgacttc accctgacca tttcctccct ccaaccgag	720
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accaagctgg agatcaagac cactacccca gcaccgaggc caccacccc ggctcctacc 840
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aaggataaga tggcagaagc ctatagcgag attggtatga aaggggaacg cagaagaggc 1380
aaaggccacg acggactgta ccagggactc agcaccgcca ccaaggacac ctatgacgct 1440
cttcacatgc aggccctgcc gcctcgg 1467

<210> 109

<211> 1479

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 109

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ctcacttgcg cgggtgtacgg gggaagcttc tcgggatact actggtcctg gattaggcag 180
cctcccgga aaggcctgga atgggtcggg gagatcaacc actccggttc aaccaactac 240
aaccgctgc tgaagtcccg cgtgaccatt tccgtggaca cctctaagaa tcagttcagc 300
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ggtagcgaca tccagatgac ccagtccccg tcctcgtgt ccgcctccgt gggagataga 540
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cgcagaagag gcaaaggcca cgacggactg taccaggacg tcagcaccgc caccaaggac 1440
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<210> 110

<211> 1497

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

polynucleotide"

<400> 110

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ctttcctgtg cggcctcggg attcactttc tcctcctact ccatgaactg ggtcagacag	180
gccccctggga agggactgga atgggtgtca tccatctcct cctcatcgtc gtacatctac	240
tacgccgata gcgtgaaggg gcggttcacc atttcccggg acaacgctaa gaacagcctc	300
tatctgcaaa tgaattccct ccgcgccgag gacactgccg tgtactactg cgcgaggggac	360
ccctcatcaa gcggcagcta ctacatggag gactcgtatt actacggaat ggacgtctgg	420
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ggcggaggag gctccaactt catgctgacc cagccgcact ccgtgtccga aagccccgga	540
aagaccgtga caatttcctg caccgggtcc tccggctcga tcgcatcaaa ctacgtgcag	600
tggtaccagc agcgcccggg cagcgcccc accactgtca tctacgagga taaccagcgg	660
ccgtcgggtg tcccagaccg gttttccggt tcgatcgata gcagcagcaa cagcgctcc	720
ctgaccatth cggcctcaa gaccgaggat gaggctgact actactgcca gtcgtatgac	780
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gcaccgaggc caccacccc ggctcctacc atcgctccc agcctctgtc cctgcgtccg	900
gaggcatgta gaccgcagc tgggtggggc gtgcataccc ggggtcttga cttgcctgc	960
gatatctaca tttgggcccc tctggctggt acttgcgggg tcctgctgct ttactcgtg	1020
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atgaggcctg tgcagactac tcaagaggag gacggctgtt catgccggtt cccagaggag	1140
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aagcaggggc agaaccagct ctacaacgaa ctcaatcttg gtcggagaga ggagtacgac	1260
gtgctggaca agcggagagg acgggaccca gaaatgggcg ggaagccgcg cagaaagaat	1320
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attggtatga aaggggaacg cagaagaggc aaaggccacg acggactgta ccagggactc 1440

agcaccgcca ccaaggacac ctatgacgct cttcacatgc aggccctgcc gcctcgg 1497

<210> 111

<211> 1449

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 111

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ccccaagtga acctgagaga aagcggcgga ggacttgtgc aacctggagg aagcctgaga 120

ctgtcatgtg ccgctgccgg cttcaccttc tcgtcctacg agatgaactg ggtccgccag 180

gcaccgggca aaggactgga atgggtgtcc tacatttcct cgtccgggtc caccatctat 240

tacgccgact ccgtgaaggg acggttcacc atctcccgga acaacgcaa gaactccctc 300

tacctcaaaa tgaactcact gagggcagag gacactgcgg tctactactg cgcccgcaa 360

gctttgggta gtcctggga gtggggccag ggaaccactg tgaccgtgtc ctgggtgga 420

gggggctccg gtggcggggg ttccaggggt ggcggaagcg atatccagat gactcagtca 480

ccaagctccc tgagcgctc agtgggagat cgggtcaca tcacgtgcca ggctgccag 540

gacatttcta actacctcaa ttggtaccag cagaagccgg ggaaggcccc caagcttctg 600

atctacgatg cctccaacct ggaaaccggc gtgccctccc gcttctcggg atcgggcagc 660

ggcactgact tcacctttac catctcgtcc ctgcaacctg aggacatcgc cacctattac 720

tgccagcagt acgataacct cccgctgact ttcggaggcg gaactaagct ggagattaag 780

accactaccc cagcaccgag gccaccacc ccggctccta ccatcgctc ccagcctctg 840

tccctgcgtc cggaggcatg tagaccgca gctgggtggg ccgtgcatac ccggggtctt 900

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ttcccagagg aggaggaagg cggctgcgaa ctgctgctga aattcagccg cagcgcagat 1140
gctccagcct acaagcaggg gcagaaccag ctctacaacg aactcaatct tggtcggaga 1200
gaggagtacg acgtgctgga caagcggaga ggacgggacc cagaaatggg cgggaagccg 1260
cgcagaaaga atccccaaga gggcctgtac aacgagctcc aaaaggataa gatggcagaa 1320
gcctatagcg agattggtat gaaaggggaa cgcagaagag gcaaaggcca cgacggactg 1380
taccagggac tcagcaccgc caccaaggac acctatgacg ctcttcacat gcaggccctg 1440
ccgcctcgg 1449

<210> 112

<211> 1470

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 112

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ccccaagtgc aactcgtcca gtccggtgca gaagtcaagg aaccgggagc ctccgtgaaa 120
gtgtcctgca aagctcctgc caacactttc tcggaccacg tgatgcactg ggtgcgccag 180
gcgccggggc agcgcttcga atggatggga tacattcatg ccgccaatgg cggtagccac 240
tactcccaaa agttccagga tagagtcacc atcaccggg acaccagcg caacaccgtg 300
tatatggatc tgtccagcct gaggtccgag gataccgccg tgtactactg cgccgggggc 360
ggatacaact cagacgcgtt cgacatttgg ggacagggta ctatgggtcac cgtgtcatcc 420
gggggcgggtg gcagcggggg cggaggctct ggccggaggcg gatcaggggg aggagggtcc 480
gacatcgtga tgaccagtc cccgtcatcg gtgtccgcgt ccgtgggaga cagagtgacc 540

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atcacgtgtc gcgccagcca ggacatctcc tcgtggttgg catggtacca gcagaagcct 600
ggaaaggccc cgaagctgct catctacgcc gcctcctccc ttcaatcggg agtgccctcg 660
cggttcaacg gaagcgggaag cgggacagat tttaccctga ctattagctc gctgcagccc 720
gaggacttcg ctacttacta ctgccaacag agctactcca cccactgac tttcggcggg 780
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gccgtgcata cccggggtct tgacttcgcc tgcgatatct acatttgggc ccctctggct 960
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gaggacggct gttcatgccg gttcccagag gaggaggaag gcggctgcga actgcgcgtg 1140
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gaactcaatc ttggtcggag agaggagtac gacgtgctgg acaagcggag aggacgggac 1260
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caaaaggata agatggcaga agcctatagc gagattggta tgaaagggga acgcagaaga 1380
ggcaaaggcc acgacggact gtaccaggga ctcagaccg ccaccaagga cacctatgac 1440
gctcttcaca tgcaggccct gccgcctcgg 1470

<210> 113

<211> 1476

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 113

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ccccaagtgc aacttgttca atccggtgga ggtcttgtgc agcccggagg atcactcaga 120

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ctgtcgtgcg cgcctctgg gttcactttc tcctcatact cgatgaactg ggtgcgccag	180
gcgccgggaa agggcctgga atgggtgtca tacatctcct cctcatcctc caccatctac	240
tacgccgatt ccgtgaaggg ccgcttcact atttcccggg acaacgcgaa aaactcgctc	300
tatctgcaaa tgaactccct gcgcgccgag gacaccgccg tgtactactg cgcccgggac	360
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tccagcggag gcggcggcag cgggtggagga ggatcagggg gaggagggtt cgggggcggt	480
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gtgaccatca cgtgtcaggc atcccaggac attagcaact acctgaattg gtaccagcag	600
aagcctggaa aggcacccaa gttgctgac tacgacgcct ccaacctgga aaccggagt	660
ccatccaggt tctcgggcag cggctcggga accgacttca cttttactat ctctccctg	720
caaccgagg atttcgcgac ctactactgc cagcaggcct acagcacccc tttcaccttc	780
gggccgggaa ctaaggtcga aatcaagacc actaccccag caccgaggcc acccaccg	840
gctcctacca tcgcctcca gcctctgtcc ctgcgtccgg aggcattgtag acccgagct	900
ggtggggccg tgcatacccg gggctttgac ttcgcctgcg atatctacat ttggggccct	960
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tacaacgaac tcaatcttgg tcggagagag gactacgacg tgctggacaa gcggagagga	1260
cgggacccag aaatgggcgg gaagccgcgc agaaagaatc cccaagaggg cctgtacaac	1320
gagctcaaaa aggataagat ggcagaagcc tatagcgaga ttggtatgaa aggggaacgc	1380
agaagaggca aaggccacga cggactgtac cagggactca gcaccgccac caaggacacc	1440
tatgacgctc ttcacatgca ggccctgccg cctcgg	1476

_SL

<210> 114

<211> 1470

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 114

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cccgaagtgc aattggtgca atcaggagga ggagtgggtca gatctggaag aagcctgaga	120
ctgtcatgcg cggcttcggg ctttaccttc aactcctacg gcctccactg ggtgcgccag	180
gcccccgga aaggcctcga atgggtcgca ctgattgagt acgacgggtc caacaagtac	240
tacggagata gcgtgaaggg ccgcttcacc atctcacggg acaagtcaa gtccaccctg	300
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gaaatcgtgc tgaccagtc gccttcctcc ctctccgctt ccgtggggga ccgggtcact	540
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ggaaaggccc ccaaactgct catctacgac gccagctcgc tgcagactgg cgtgccttcc	660
cggttttccg ggaaccggtc gggaaccacc ttctcattca ccatcagcag cctccagccg	720
gaggacgtgg cgacctacta ctgccagcag catgacaacc ttccactgac tttcggcggg	780
ggcaccaagg tcgagattaa gaccactacc ccagcaccga ggccaccac cccggctcct	840
accatcgcct cccagcctct gtccctgcgt ccggaggcat gtagaccgc agctggtggg	900
gccgtgcata cccgggtct tgaacttcgcc tgcgatatct acatttgggc ccctctggct	960
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aagaagctgc tgtacatctt taagcaaccc ttcattgaggc ctgtgcagac tactcaagag	1080
gaggacggct gttcatgccg gttcccagag gaggaggaag gcggctgcga actgcgcgtg	1140

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aaattcagcc gcagcgcaga tgctccagcc tacaagcagg ggcagaacca gctctacaac	1200
gaactcaatc ttggtcggag agaggagtac gacgtgctgg acaagcggag aggacgggac	1260
ccagaaatgg gcgggaagcc gcgcagaaag aatccccaag agggcctgta caacgagctc	1320
caaaaggata agatggcaga agcctatagc gagattggtg tgaaagggga acgcagaaga	1380
ggcaaaggcc acgacggact gtaccaggga ctcagcaccg ccaccaagga cacctatgac	1440
gctcttcaca tgcaggccct gccgcctcgg	1470

<210> 115

<211> 1497

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 115

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ccccaaagtgc aactcgtgga atcaggcgga ggactcgtgc aaccgggagg ttcccttaga	120
ctgtcatgtg ccgcttccgg gttcaatgtg tccagcaact acatgacctg ggtcagacag	180
gcgccgggaa agggacttga atgggtgtcc gtgatctact ccggtggagc aacatactac	240
ggagactccg tgaaaggccg ctttaccgtg tcccgcgata actcgaagaa caccgtgtac	300
ttgcagatga acaggctgac tgccgaggac accgccgtgt attattgcgc ccgggacagg	360
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ggcactctcg tcaactgtgtc atccgggggg ggcggtagcg gtggcggagg gtccggcgga	480
ggaggctcag ggggaggcgg aagcgatatc caggtcaccc agtctccctc ctcgctgtcc	540
gcctccgtgg gcgaccgcgt caccattact tgccgggcgt cgagtcgat cagctcctac	600
ctgaactggg accagcagaa gcctggaaaag gccccgaagc tgctgatcta cgcggcctcg	660
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_SL

ctgactatatt cctccctgca acccgaggat ttcgccactt actactgcca gcagtcctac 780
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gcaccgaggc caccaccccc ggctcctacc atcgctctcc agcctctgtc cctgcgtccg 900
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atgaggcctg tgcagactac tcaagaggag gacggctgtt catgccggtt cccagaggag 1140
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agcaccgcca ccaaggacac ctatgacgct cttcacatgc aggccctgcc gcctcgg 1497

<210> 116

<211> 1473

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 116

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gtgtcctgca aggcctccgg ttaccccttc actggatact acattcagtg ggtccgccaa 180
gccccgggac agggctctgga gtggatgggg tggattgacc ctaactcggg aaatacggga 240
tacgcgcaga agttccaggg ccgcgtgacc atgaccagga acacctgat cagcaccgcc 300

_SL

tacatggaac tgtcctccct gcggtcggag gatactgccg tgtactactg cgcctccgat 360
tcctatgggt actactacgg aatggacgtc tggggacagg gcaccctcgt gaccgtgtcc 420
tcgggaggcg gagggagcgg cgggggtgga tcgggaggag gcggctccgg cggcggcgg 480
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acattcactt gtcgggcgtc ccagggaatc tcctccgtc tggcttggt ttagcagaag 600
cctgggaagc ctccgaagct gttgatctac gacgcgagca gcctggaatc aggggtgccc 660
tcccggtttt ccgggtccgg ttctggcacc gatttcaccc tgaccatttc gtccctccaa 720
cccgaggact tcgccactta ctactgccag cagttcaaca actaccgct gaccttcgga 780
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cctaccatcg cctcccagcc tctgtccctg cgtccggagg catgtagacc cgcagctggt 900
ggggccgtgc ataccgggg tcttgacttc gcctgcgata tctacatttg ggccctctg 960
gctggtactt gcggggtcct gctgctttca ctcgtgatca ctctttactg taagcgcggt 1020
cggaagaagc tgctgtacat ctttaagcaa cccttcatga ggctgtgca gactactcaa 1080
gaggaggacg gctgttcatg ccggttccca gaggaggagg aaggcggctg cgaactgcgc 1140
gtgaaattca gccgcagcgc agatgctcca gcctacaagc aggggcagaa ccagctctac 1200
aacgaactca atcttggtcg gagagaggag tacgacgtgc tggacaagcg gagaggacgg 1260
gaccagaaa tgggcgggaa gccgcgcaga aagaatcccc aagagggcct gtacaacgag 1320
ctccaaaagg ataagatggc agaagcctat agcgagattg gtatgaaagg ggaacgcaga 1380
agaggcaaag gccacgacgg actgtaccag ggactcagca ccgccaccaa ggacacctat 1440
gacgtcttc acatgcaggc cctgccgcct cgg 1473

<210> 117

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<221> source

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

<400> 117

Gly Gly Thr Phe Ser Ser Tyr Ala Ile Ser
1 5 10

<210> 118

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 118

Gly Phe Thr Phe Asp Asp Tyr Ala Met His
1 5 10

<210> 119

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 119

Gly Gly Ser Ile Ser Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

<210> 120

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

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<400> 120

Gly Phe Thr Phe Ser Ser Tyr Trp Met Ser
1 5 10

<210> 121

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 121

Gly Gly Pro Val Arg Ser Gly Ser His Tyr Trp Asn
1 5 10

<210> 122

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 122

Gly Gly Ser Phe Ser Gly Tyr Tyr Trp Ser
1 5 10

<210> 123

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 123

Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn

1 5 10 _SL

<210> 124
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 124
Gly Phe Thr Phe Ser Ser Tyr Glu Met Asn
1 5 10

<210> 125
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 125
Ala Asn Thr Phe Ser Asp His Val Met His
1 5 10

<210> 126
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 126
Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn
1 5 10

_SL

<210> 127

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 127

Gly Phe Thr Phe Asn Ser Tyr Gly Leu His
1 5 10

<210> 128

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 128

Gly Phe Asn Val Ser Ser Asn Tyr Met Thr
1 5 10

<210> 129

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 129

Gly Tyr Pro Phe Thr Gly Tyr Tyr Ile Gln
1 5 10

<210> 130

<211> 16

<212> PRT

_SL

<213> Artificial Sequence

<220>

<221> source

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

<400> 130

Gly	Ile	Ile	Pro	Ile	Phe	Gly	Thr	Ala	Asn	Tyr	Ala	Gln	Lys	Phe	Gln
1				5					10					15	

<210> 131

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 131

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

Gly

<210> 132

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 132

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

<210> 133

<211> 17

_SL

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 133

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

Gly

<210> 134

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 134

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

<210> 135

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 135

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

<210> 136

_SL

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 136

Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 137

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 137

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

Gly

<210> 138

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 138

Tyr	Ile	His	Ala	Ala	Asn	Gly	Gly	Thr	His	<u>SL</u> Tyr	Ser	Gln	Lys	Phe	Gln
1				5					10					15	

Asp

<210> 139
 <211> 17
 <212> PRT
 <213> Artificial Sequence

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

Tyr	Ile	Ser	Ser	Ser	Ser	Ser	Thr	Ile	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
1				5					10					15	

Gly

<210> 140
 <211> 17
 <212> PRT
 <213> Artificial Sequence

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

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

Gly

<210> 141
 <211> 16

_SL

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 141

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

<210> 142

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 142

Trp	Ile	Asp	Pro	Asn	Ser	Gly	Asn	Thr	Gly	Tyr	Ala	Gln	Lys	Phe	Gln
1				5				10					15		

Gly

<210> 143

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 143

Asp	Leu	Glu	Met	Ala	Thr	Ile	Met	Gly	Gly	Tyr
1				5				10		

<210> 144

_SL

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

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

<400> 144
Val Phe Asp Ser Tyr Tyr Met Asp Val
1 5

<210> 145
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 145
Pro Gly Thr Tyr Tyr Asp Phe Leu Ser Gly Tyr Tyr Pro Phe Tyr
1 5 10 15

<210> 146
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 146
Asp Leu Arg Ser Gly Arg Tyr
1 5

<210> 147
<211> 13
<212> PRT
<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 147

Gly Thr Ala Thr Phe Asp Trp Asn Phe Pro Phe Asp Ser
1 5 10

<210> 148

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 148

Gly Ser Gly Leu Val Val Tyr Ala Ile Arg Val Gly Ser Gly Trp Phe
1 5 10 15

Asp Tyr

<210> 149

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 149

Asp Pro Ser Ser Ser Gly Ser Tyr Tyr Met Glu Asp Ser Tyr Tyr Tyr
1 5 10 15

Gly Met Asp Val
20

_SL

<210> 150
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 150
Glu Ala Leu Gly Ser Ser Trp Glu
1 5

<210> 151
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 151
Gly Gly Tyr Asn Ser Asp Ala Phe Asp Ile
1 5 10

<210> 152
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 152
Asp Leu Ser Val Arg Ala Ile Asp Ala Phe Asp Ile
1 5 10

<210> 153
<211> 10

_SL

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 153

Glu Gly Asn Glu Asp Leu Ala Phe Asp Ile
1 5 10

<210> 154

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 154

Asp Arg Leu Tyr Cys Gly Asn Asn Cys Tyr Leu Tyr Tyr Tyr Tyr Gly
1 5 10 15

Met Asp Val

<210> 155

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 155

Asp Ser Tyr Gly Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 156

_SL

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

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

<400> 156
Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 157
<211> 16
<212> PRT
<213> Artificial Sequence

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

<400> 157
Arg Ser Ser Gln Ser Leu Val Tyr Thr Asp Gly Asn Thr Tyr Leu Asn
1 5 10 15

<210> 158
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 158
Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
1 5 10

<210> 159
<211> 12
<212> PRT
<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 159

Arg Ala Ser Gln Ser Ile Ser Gly Ser Phe Leu Ala
1 5 10

<210> 160

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 160

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 161

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 161

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 162

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> source

_SL

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

<400> 162
Thr Gly Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln
1 5 10

<210> 163
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 163
Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 164
<211> 11
<212> PRT
<213> Artificial Sequence

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

<400> 164
Arg Ala Ser Gln Asp Ile Ser Ser Trp Leu Ala
1 5 10

<210> 165
<211> 11
<212> PRT
<213> Artificial Sequence

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

_SL

<400> 165

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 166

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 166

Gln Ala Ser Gln Phe Ile Lys Lys Asn Leu Asn
1 5 10

<210> 167

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 167

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 168

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 168

Arg Ala Ser Gln Gly Ile Ser Ser Ala Leu Ala
1 5 10

_SL

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 169
Asp Val Ser Asn Arg Pro Ser
1 5

<210> 170
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 170
Lys Val Ser Asn Arg Asp Ser
1 5

<210> 171
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 171
Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 172

_SL

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

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

<400> 172
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 173
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 173
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 174
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 174
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 175
<211> 7
<212> PRT
<213> Artificial Sequence

_SL

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

<400> 175
Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 176
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 176
Asp Ala Ser Asn Leu Glu Thr
1 5

<210> 177
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 177
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 178
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> source

_SL

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

<400> 178
Asp Ala Ser Asn Leu Glu Thr
1 5

<210> 179
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 179
Asp Ala Ser Ser Leu Gln Thr
1 5

<210> 180
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 180
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 181
<211> 7
<212> PRT
<213> Artificial Sequence

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

_SL

<400> 181
Asp Ala Ser Ser Leu Glu Ser
1 5

<210> 182
<211> 12
<212> PRT
<213> Artificial Sequence

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

<400> 182
Ser Ser Tyr Thr Ser Ser Ser Thr Leu Asp Val Val
1 5 10

<210> 183
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 183
Met Gln Gly Thr His Trp Ser Phe Thr
1 5

<210> 184
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 184
Gln Gln Leu Asn Ser Tyr Pro Tyr Thr
1 5

_SL

<210> 185
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 185
Gln Gln Tyr Gly Ser Ser Pro Pro Thr
1 5

<210> 186
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 186
Gln Gln Ser Tyr Ser Thr Pro Trp Thr
1 5

<210> 187
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 187
Gln Gln Ser Tyr Ser Thr Pro Pro Trp Thr
1 5 10

<210> 188

_SL

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

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

<400> 188
Gln Ser Tyr Asp Ser Ser Asn Gln Val Val
1 5 10

<210> 189
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 189
Gln Gln Tyr Asp Asn Leu Pro Leu Thr
1 5

<210> 190
<211> 9
<212> PRT
<213> Artificial Sequence

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

<400> 190
Gln Gln Ser Tyr Ser Thr Pro Leu Thr
1 5

<210> 191
<211> 9
<212> PRT
<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 191

Gln Gln Ala Tyr Ser Thr Pro Phe Thr
1 5

<210> 192

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 192

Gln Gln His Asp Asn Leu Pro Leu Thr
1 5

<210> 193

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 193

Gln Gln Ser Tyr Ser Thr Pro Pro Leu Thr
1 5 10

<210> 194

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

_SL

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

<400> 194
Gln Gln Phe Asn Asn Tyr Pro Leu Thr
1 5

<210> 195
<211> 122
<212> PRT
<213> Artificial Sequence

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

<400> 195
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Ala Arg Asp Pro Tyr Ser Ser Ser Trp His Asp Ala Phe Asp Ile Trp
100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser

115

120

_SL

<210> 196

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 196

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30

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

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

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

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

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

<210> 197

<211> 489

<212> PRT

<213> Artificial Sequence

<220>

_SL

<221> source

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

<400> 197

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

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

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Ser Ser Tyr Glu Met Asn Trp Val Arg Gln Ala Pro Gly Lys
50 55 60

Gly Leu Glu Trp Val Ser Tyr Ile Ser Ser Ser Gly Ser Thr Ile Tyr
65 70 75 80

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Ala Arg Asp Pro Tyr Ser Ser Ser Trp His Asp
115 120 125

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile
145 150 155 160

Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg
165 170 175

_SL

Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu
180 185 190

Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
195 200 205

Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser
210 215 220

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

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

Phe Gly Gly Gly Thr Lys Val Asp Ile Lys Thr Thr Thr Pro Ala Pro
260 265 270

Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu
275 280 285

Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg
290 295 300

Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly
305 310 315 320

Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys
325 330 335

Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg
340 345 350

Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro
355 360 365

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Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser
370 375 380

Ala Asp Ala Pro Ala Tyr Lys Gln Gly Gln Asn Gln Leu Tyr Asn Glu
385 390 395 400

Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg
405 410 415

Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln
420 425 430

Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr
435 440 445

Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp
450 455 460

Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala
465 470 475 480

Leu His Met Gln Ala Leu Pro Pro Arg
485

<210> 198

<211> 1467

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

<400> 198

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cccgaagtgc aactcgtgga aagcgggtgga ggtcttgtgc aacctggagg ttccttgccg 120

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ctgtcatgtg cagcttccgg cttcactttc tcctcgtacg agatgaattg ggtgcggcag	180
gcgcctggaa aggggctgga atgggtgtcc tacatctcaa gctccggctc gaccatctac	240
tacgcggaca gcgtgaaggg gcggttcacg atttcgaggg acaacgcaa gaactcgctc	300
tatctgcaaa tgaactccct gagagccgag gacaccgctg tgtattactg cgccggggac	360
ccctactcct cctcatggca cgacgccttt gatatctggg gccagggaac catggtcacc	420
gtcagcagcg ggggcggagg ttccggggga gggggctccg gcggaggagg ctccgagatt	480
gtgttgactc agagcccggg taccctgtcg ctgagccccg gagagcgggc caccctttca	540
tgccgcgcca gccagtccgt gtcctcatcc tacctcgcgt ggtaccagca gaaacctggc	600
caggccccgc ggctgctgat ctacggcgcc tcctcgcgcg caaccggaat ccccgaccgg	660
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gatttcgccg tgtactactg ccagcagtac ggctcctcgc cactgacttt cggcggagga	780
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ctcaatcttg gtcggagaga ggagtacgac gtgctggaca agcggagagg acgggacca	1260
gaaatgggcg ggaagccgcg cagaaagaat cccaagagg gcctgtacaa cgagctccaa	1320
aaggataaga tggcagaagc ctatagcgag attggtatga aagggaacg cagaagaggc	1380
aaaggccacg acggactgta ccagggactc agcaccgcca ccaaggacac ctatgacgct	1440
cttcacatgc aggccctgcc gcctcgg	1467

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<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 199

Gly Phe Thr Phe Ser Ser Tyr Glu Met Asn

1

5

10

<210> 200

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 200

Tyr Ile Ser Ser Ser Gly Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys

1

5

10

15

Gly

<210> 201

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 201

Asp Pro Tyr Ser Ser Ser Trp His Asp Ala Phe Asp Ile

1

5

10

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<210> 202

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 202

Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 203

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 203

Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 204

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 204

Gln Gln Tyr Gly Ser Ser Pro Leu Thr
1 5

<210> 205

<211> 132

<212> PRT

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<213> Artificial Sequence

<220>

<221> source

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

<400> 205

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

Lys Arg Lys Val Ser Arg Gly Val Gln Val Glu Thr Ile Ser Pro Gly
20 25 30

Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr
35 40 45

Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg
50 55 60

Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly
65 70 75 80

Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu
85 90 95

Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile
100 105 110

Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu
115 120 125

Glu Thr Ser Tyr
130

<210> 206

<211> 108

<212> PRT

<213> Artificial Sequence

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<220>

<221> source

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

<400> 206

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
1 5 10 15

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

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
35 40 45

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

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

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

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

<210> 207

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 207

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg
1 5 10 15

_SL

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

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

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

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

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys
85 90

<210> 208

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 208

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Ile Glu Ala Ser Arg
1 5 10 15

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

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

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

_SL

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

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys Thr Ser
85 90 95

<210> 209

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 209

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Leu Glu Ala Ser Arg
1 5 10 15

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

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

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

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

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys Thr Ser
85 90 95

<210> 210

<211> 95

<212> PRT

<213> Artificial Sequence

_SL

<220>

<221> source

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

<400> 210

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Glu Glu Ala Ser Arg
1 5 10 15

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

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

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

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

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys Thr Ser
85 90 95

<210> 211

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<220>

<221> MOD_RES

<222> (12)..(12)

<223> Any amino acid

<220>

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<221> MOD_RES

<222> (78)..(78)

<223> Any amino acid

<400> 211

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Xaa Glu Ala Ser Arg
1 5 10 15

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

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

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

Cys Arg Lys Tyr Met Lys Ser Gly Asn Val Lys Asp Leu Xaa Gln Ala
65 70 75 80

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys Thr Ser
85 90 95

<210> 212

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 212

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Ile Glu Ala Ser Arg
1 5 10 15

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

Pro Leu His Ala Met Met Glu Arg Gly Pro ^{SL}Gln Thr Leu Lys Glu Thr
35 40 45

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

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

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys Thr Ser
85 90 95

<210> 213

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 213

Ile Leu Trp His Glu Met Trp His Glu Gly Leu Leu Glu Ala Ser Arg
1 5 10 15

Leu Tyr Phe Gly Glu Arg Asn Val Lys Gly Met Phe Glu Val Leu Glu
20 25 30

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

Ser Phe Asn Gln Ala Tyr Gly Arg Asp Leu Met Glu Ala Gln Glu Trp
50 55 60

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

Trp Asp Leu Tyr Tyr His Val Phe Arg Arg Ile Ser Lys Thr Ser

85 90 95 $_{-SL}$

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<210> 214
<211> 1132
<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> 214
Met Pro Arg Ala Pro Arg Cys Arg Ala Val Arg Ser Leu Leu Arg Ser
1 5 10 15

His Tyr Arg Glu Val Leu Pro Leu Ala Thr Phe Val Arg Arg Leu Gly
20 25 30

Pro Gln Gly Trp Arg Leu Val Gln Arg Gly Asp Pro Ala Ala Phe Arg
35 40 45

Ala Leu Val Ala Gln Cys Leu Val Cys Val Pro Trp Asp Ala Arg Pro
50 55 60

Pro Pro Ala Ala Pro Ser Phe Arg Gln Val Ser Cys Leu Lys Glu Leu
65 70 75 80

Val Ala Arg Val Leu Gln Arg Leu Cys Glu Arg Gly Ala Lys Asn Val
85 90 95

Leu Ala Phe Gly Phe Ala Leu Leu Asp Gly Ala Arg Gly Gly Pro Pro
100 105 110

Glu Ala Phe Thr Thr Ser Val Arg Ser Tyr Leu Pro Asn Thr Val Thr
115 120 125

Asp Ala Leu Arg Gly Ser Gly Ala Trp Gly Leu Leu Leu Arg Arg Val
130 135 140

_SL

Gly Asp Asp Val Leu Val His Leu Leu Ala Arg Cys Ala Leu Phe Val
145 150 155 160

Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro Leu Tyr
165 170 175

Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala Ser Gly
180 185 190

Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser Val Arg
195 200 205

Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg Arg Arg
210 215 220

Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro Arg Arg
225 230 235 240

Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly Ser Trp
245 250 255

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

Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu Gly Ala
275 280 285

Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln His His
290 295 300

Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp Thr Pro
305 310 315 320

Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser Ser Gly
325 330 335

_SL

Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu Arg Pro
340 345 350

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

Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu Pro Gln
370 375 380

Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly Asn His
385 390 395 400

Ala Gln Cys Pro Tyr Gly Val Leu Leu Lys Thr His Cys Pro Leu Arg
405 410 415

Ala Ala Val Thr Pro Ala Ala Gly Val Cys Ala Arg Glu Lys Pro Gln
420 425 430

Gly Ser Val Ala Ala Pro Glu Glu Glu Asp Thr Asp Pro Arg Arg Leu
435 440 445

Val Gln Leu Leu Arg Gln His Ser Ser Pro Trp Gln Val Tyr Gly Phe
450 455 460

Val Arg Ala Cys Leu Arg Arg Leu Val Pro Pro Gly Leu Trp Gly Ser
465 470 475 480

Arg His Asn Glu Arg Arg Phe Leu Arg Asn Thr Lys Lys Phe Ile Ser
485 490 495

Leu Gly Lys His Ala Lys Leu Ser Leu Gln Glu Leu Thr Trp Lys Met
500 505 510

Ser Val Arg Gly Cys Ala Trp Leu Arg Arg Ser Pro Gly Val Gly Cys
515 520 525

_SL

Val Pro Ala Ala Glu His Arg Leu Arg Glu Glu Ile Leu Ala Lys Phe
530 535 540

Leu His Trp Leu Met Ser Val Tyr Val Val Glu Leu Leu Arg Ser Phe
545 550 555 560

Phe Tyr Val Thr Glu Thr Thr Phe Gln Lys Asn Arg Leu Phe Phe Tyr
565 570 575

Arg Lys Ser Val Trp Ser Lys Leu Gln Ser Ile Gly Ile Arg Gln His
580 585 590

Leu Lys Arg Val Gln Leu Arg Glu Leu Ser Glu Ala Glu Val Arg Gln
595 600 605

His Arg Glu Ala Arg Pro Ala Leu Leu Thr Ser Arg Leu Arg Phe Ile
610 615 620

Pro Lys Pro Asp Gly Leu Arg Pro Ile Val Asn Met Asp Tyr Val Val
625 630 635 640

Gly Ala Arg Thr Phe Arg Arg Glu Lys Arg Ala Glu Arg Leu Thr Ser
645 650 655

Arg Val Lys Ala Leu Phe Ser Val Leu Asn Tyr Glu Arg Ala Arg Arg
660 665 670

Pro Gly Leu Leu Gly Ala Ser Val Leu Gly Leu Asp Asp Ile His Arg
675 680 685

Ala Trp Arg Thr Phe Val Leu Arg Val Arg Ala Gln Asp Pro Pro Pro
690 695 700

Glu Leu Tyr Phe Val Lys Val Asp Val Thr Gly Ala Tyr Asp Thr Ile
705 710 715 720

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Pro Gln Asp Arg Leu Thr Glu Val Ile Ala Ser Ile Ile Lys Pro Gln
725 730 735

Asn Thr Tyr Cys Val Arg Arg Tyr Ala Val Val Gln Lys Ala Ala His
740 745 750

Gly His Val Arg Lys Ala Phe Lys Ser His Val Ser Thr Leu Thr Asp
755 760 765

Leu Gln Pro Tyr Met Arg Gln Phe Val Ala His Leu Gln Glu Thr Ser
770 775 780

Pro Leu Arg Asp Ala Val Val Ile Glu Gln Ser Ser Ser Leu Asn Glu
785 790 795 800

Ala Ser Ser Gly Leu Phe Asp Val Phe Leu Arg Phe Met Cys His His
805 810 815

Ala Val Arg Ile Arg Gly Lys Ser Tyr Val Gln Cys Gln Gly Ile Pro
820 825 830

Gln Gly Ser Ile Leu Ser Thr Leu Leu Cys Ser Leu Cys Tyr Gly Asp
835 840 845

Met Glu Asn Lys Leu Phe Ala Gly Ile Arg Arg Asp Gly Leu Leu Leu
850 855 860

Arg Leu Val Asp Asp Phe Leu Leu Val Thr Pro His Leu Thr His Ala
865 870 875 880

Lys Thr Phe Leu Arg Thr Leu Val Arg Gly Val Pro Glu Tyr Gly Cys
885 890 895

Val Val Asn Leu Arg Lys Thr Val Val Asn Phe Pro Val Glu Asp Glu
900 905 910

_SL

Ala Leu Gly Gly Thr Ala Phe Val Gln Met Pro Ala His Gly Leu Phe
915 920 925

Pro Trp Cys Gly Leu Leu Leu Asp Thr Arg Thr Leu Glu Val Gln Ser
930 935 940

Asp Tyr Ser Ser Tyr Ala Arg Thr Ser Ile Arg Ala Ser Leu Thr Phe
945 950 955 960

Asn Arg Gly Phe Lys Ala Gly Arg Asn Met Arg Arg Lys Leu Phe Gly
965 970 975

Val Leu Arg Leu Lys Cys His Ser Leu Phe Leu Asp Leu Gln Val Asn
980 985 990

Ser Leu Gln Thr Val Cys Thr Asn Ile Tyr Lys Ile Leu Leu Leu Gln
995 1000 1005

Ala Tyr Arg Phe His Ala Cys Val Leu Gln Leu Pro Phe His Gln
1010 1015 1020

Gln Val Trp Lys Asn Pro Thr Phe Phe Leu Arg Val Ile Ser Asp
1025 1030 1035

Thr Ala Ser Leu Cys Tyr Ser Ile Leu Lys Ala Lys Asn Ala Gly
1040 1045 1050

Met Ser Leu Gly Ala Lys Gly Ala Ala Gly Pro Leu Pro Ser Glu
1055 1060 1065

Ala Val Gln Trp Leu Cys His Gln Ala Phe Leu Leu Lys Leu Thr
1070 1075 1080

Arg His Arg Val Thr Tyr Val Pro Leu Leu Gly Ser Leu Arg Thr
1085 1090 1095

_SL

Ala Gln Thr Gln Leu Ser Arg Lys Leu Pro Gly Thr Thr Leu Thr
1100 1105 1110

Ala Leu Glu Ala Ala Ala Asn Pro Ala Leu Pro Ser Asp Phe Lys
1115 1120 1125

Thr Ile Leu Asp
1130

<210> 215

<211> 4027

<212> DNA

<213> Artificial Sequence

<220>

<221> source

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

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cccgagtgtc gcagaggctg tgcgagcgcg gcgcgaagaa cgtgctggcc ttcggcttcg	360
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ctcaggcccc gcccccgcca cacgctagtg gaccccgaag gcgtctggga tgcgaacggg	660
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_SL

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oligonucleotide"

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Arg Gly Asp Ser

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peptide"

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Ser Tyr Ala Ile Ser
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Asp Tyr Ala Met His
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Ser Ser Ser Tyr Tyr Trp Gly
1 5

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Ser Tyr Trp Met Ser

1 5

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Ser Gly Ser His Tyr Trp Asn

1 5

<210> 319

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Gly Tyr Tyr Trp Ser

1 5

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<211> 5

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Ser Tyr Ser Met Asn
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Ser Tyr Glu Met Asn
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1 5

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1 5

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Ser Asn Tyr Met Thr
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<400> 326

Gly Tyr Tyr Ile Gln

1 5

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

<400> 327

Ser Tyr Glu Met Asn

1 5

<210> 328

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 328

Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln

1 5 10 15

Gly

<210> 329

<211> 17

<212> PRT

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<221> source

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

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peptide"

<400> 329

Leu	Ile	Ser	Gly	Asp	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
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Gly

<210> 330

<211> 16

<212> PRT

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

<400> 330

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

<210> 331

<211> 17

<212> PRT

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

<400> 331

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

Gly

<210> 332

<211> 16

<212> PRT

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<213> Artificial Sequence

<220>

<221> source

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

<400> 332

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

<210> 333

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 333

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

<210> 334

<211> 17

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<220>

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

<400> 334

Ser	Ile	Ser	Ser	Ser	Ser	Ser	Tyr	Ile	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
1				5				10					15		

Gly

<210> 335

<211> 17

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<212> PRT

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

<400> 335

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

Gly

<210> 336

<211> 17

<212> PRT

<213> Artificial Sequence

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<221> source

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

<400> 336

Tyr Ile His Ala Ala Asn Gly Gly Thr His Tyr Ser Gln Lys Phe Gln
1 5 10 15

Asp

<210> 337

<211> 17

<212> PRT

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<220>

<221> source

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

<400> 337

Tyr Ile Ser Ser Ser Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 338
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<220>
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<400> 338
 Leu Ile Glu Tyr Asp Gly Ser Asn Lys Tyr Tyr Gly Asp Ser Val Lys
 1 5 10 15

Gly

<210> 339
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<220>
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<400> 339
 Val Ile Tyr Ser Gly Gly Ala Thr Tyr Tyr Gly Asp Ser Val Lys Gly
 1 5 10 15

<210> 340
 <211> 17
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 340

Trp	Ile	Asp	Pro	Asn	Ser	Gly	Asn	Thr	Gly	Tyr	Ala	Gln	Lys	Phe	Gln
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Gly

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<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 341

Tyr	Ile	Ser	Ser	Ser	Gly	Ser	Thr	Ile	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
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Gly

<210> 342

<211> 11

<212> PRT

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<220>

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

<400> 342

Asp	Leu	Glu	Met	Ala	Thr	Ile	Met	Gly	Gly	Tyr
1				5					10	

<210> 343

<211> 9

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<212> PRT

<213> Artificial Sequence

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

<400> 343

Val Phe Asp Ser Tyr Tyr Met Asp Val

1 5

<210> 344

<211> 15

<212> PRT

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<220>

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

<400> 344

Pro Gly Thr Tyr Tyr Asp Phe Leu Ser Gly Tyr Tyr Pro Phe Tyr

1 5 10 15

<210> 345

<211> 7

<212> PRT

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<220>

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

<400> 345

Asp Leu Arg Ser Gly Arg Tyr

1 5

<210> 346

<211> 13

<212> PRT

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<220>

<221> source

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

<400> 346

Gly Thr Ala Thr Phe Asp Trp Asn Phe Pro Phe Asp Ser
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<210> 347

<211> 18

<212> PRT

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<221> source

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

<400> 347

Gly Ser Gly Leu Val Val Tyr Ala Ile Arg Val Gly Ser Gly Trp Phe
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Asp Tyr

<210> 348

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> source

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

<400> 348

Asp Pro Ser Ser Ser Gly Ser Tyr Tyr Met Glu Asp Ser Tyr Tyr Tyr
1 5 10 15

Gly Met Asp Val
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<210> 349

<211> 8

<212> PRT

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<220>

<221> source

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

<400> 349

Glu Ala Leu Gly Ser Ser Trp Glu

1 5

<210> 350

<211> 10

<212> PRT

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<220>

<221> source

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

<400> 350

Gly Gly Tyr Asn Ser Asp Ala Phe Asp Ile

1 5 10

<210> 351

<211> 12

<212> PRT

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<220>

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

<400> 351

Asp Leu Ser Val Arg Ala Ile Asp Ala Phe Asp Ile

1 5 10

<210> 352

<211> 10

<212> PRT

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<213> Artificial Sequence

<220>

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

<400> 352

Glu Gly Asn Glu Asp Leu Ala Phe Asp Ile
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<210> 353

<211> 19

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<220>

<221> source

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

<400> 353

Asp Arg Leu Tyr Cys Gly Asn Asn Cys Tyr Leu Tyr Tyr Tyr Gly
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Met Asp Val

<210> 354

<211> 11

<212> PRT

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<400> 354

Asp Ser Tyr Gly Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 355

<211> 13

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<220>

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Asp Pro Tyr Ser Ser Ser Trp His Asp Ala Phe Asp Ile
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<210> 356

<211> 14

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<400> 356

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 357

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 357

Arg Ser Ser Gln Ser Leu Val Tyr Thr Asp Gly Asn Thr Tyr Leu Asn
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<210> 358

<211> 11

<212> PRT

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<220>

<221> source

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<400> 358

Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
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<211> 12

<212> PRT

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<220>

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Arg Ala Ser Gln Ser Ile Ser Gly Ser Phe Leu Ala
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Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

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peptide"

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Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
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<211> 13

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<213> Artificial Sequence

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<223> /note="Description of Artificial Sequence: Synthetic
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<400> 362

Thr Gly Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln
1 5 10

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<211> 11

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

<400> 363

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
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<211> 11

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<400> 364

Arg Ala Ser Gln Asp Ile Ser Ser Trp Leu SL Ala
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<210> 365
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<210> 366
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 Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
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<210> 368
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<400> 368
Arg Ala Ser Gln Gly Ile Ser Ser Ala Leu Ala
1 5 10

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Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
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Asp Val Ser Asn Arg Pro Ser
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<210> 371
<211> 7

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Lys Val Ser Asn Arg Asp Ser

1 5

<210> 372

<211> 7

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<400> 372

Ala Ala Ser Thr Leu Gln Ser

1 5

<210> 373

<211> 7

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<400> 373

Gly Ala Ser Ser Arg Ala Thr

1 5

<210> 374

<211> 7

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<220>

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Ala Ala Ser Ser Leu Gln Ser
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<211> 7

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Ala Ala Ser Ser Leu Gln Ser
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<210> 376

<211> 7

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<400> 376

Glu Asp Asn Gln Arg Pro Ser
1 5

<210> 377

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<400> 377

Asp Ala Ser Asn Leu Glu Thr
1 5

<210> 378

<211> 7

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peptide"

<400> 378

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 379

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peptide"

<400> 379

Asp Ala Ser Asn Leu Glu Thr
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<210> 380

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<400> 380

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Asp Ala Ser Ser Leu Gln Thr
1 5

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peptide"

<400> 381
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 382
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peptide"

<400> 382
Asp Ala Ser Ser Leu Glu Ser
1 5

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peptide"

<400> 383
Gly Ala Ser Ser Arg Ala Thr
1 5

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<210> 384
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<400> 384
Ser Ser Tyr Thr Ser Ser Ser Thr Leu Asp Val Val
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<400> 387

Gln Gln Tyr Gly Ser Ser Pro Pro Thr

1 5

<210> 388

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<400> 388

Gln Gln Ser Tyr Ser Thr Pro Trp Thr

1 5

<210> 389

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<400> 389

Gln Gln Ser Tyr Ser Thr Pro Pro Trp Thr

1 5 10

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Gln Ser Tyr Asp Ser Ser Asn Gln Val Val
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<210> 391

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<400> 391

Gln Gln Tyr Asp Asn Leu Pro Leu Thr
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<210> 392

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<400> 392

Gln Gln Ser Tyr Ser Thr Pro Leu Thr
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peptide"

<400> 393

Gln Gln Ala Tyr Ser Thr Pro Phe Thr
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<210> 394

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peptide"

<400> 394

Gln Gln His Asp Asn Leu Pro Leu Thr
1 5

<210> 395

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peptide"

<400> 395

Gln Gln Ser Tyr Ser Thr Pro Pro Leu Thr
1 5 10

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<400> 396

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Gln Gln Phe Asn Asn Tyr Pro Leu Thr
1 5

<210> 397
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peptide"

<400> 397
Gln Gln Tyr Gly Ser Ser Pro Leu Thr
1 5

<210> 398
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peptide"

<400> 398
Gly Gly Thr Phe Ser Ser Tyr
1 5

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peptide"

<400> 399
Gly Phe Thr Phe Asp Asp Tyr
1 5

_SL

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