

SEQUENCE LISTING

<110> GLAXOSMITHKLINE INTELLECTUAL PROPERTY
DEVELOPMENT LIMITED

<120> Combinations and Uses and Treatments
thereof

<130> PU65949

<160> 47

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 5

<212> PRT

<213> Mus sp.

<400> 1

Asp Tyr Ser Met His
1 5

<210> 2

<211> 16

<212> PRT

<213> Mus sp.

<400> 2

Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe Lys
1 5 10 15

<210> 3

<211> 13

<212> PRT

<213> Mus sp.

<400> 3

Pro Tyr Tyr Asp Tyr Val Ser Tyr Tyr Ala Met Asp Tyr
1 5 10

<210> 4

<211> 122

<212> PRT

<213> Mus sp.

<400> 4

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

		100						105			110
Gly	His	Gly	Thr	Ser	Val	Thr	Val	Ser	Ser		
		115					120				

<210> 5
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 5
 Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Ser Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Lys Trp Met
 35 40 45
 Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Phe
 50 55 60
 Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Asn Pro Tyr Tyr Asp Tyr Val Ser Tyr Tyr Ala Met Asp Tyr Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 6
 <211> 458
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 6
 actagtagcac ccatggcttg ggtgtggacc ttgctattcc tgatggcagc tgcccaaagt 60
 atccaagcac aggttcagtt ggtgcagctt ggatctgagc tgaagaagcc tggagcctca 120
 gtcaagggtt cctgcaaggc ttctgggttat accttcacag actattcaat gcactgggtg 180
 cgacaggctc caggacaagg tttaaagtgg atgggctgga taaacactga gactggtgag 240
 ccaacatatg cagatgactt caagggacgg tttgtcttct ctttggacac ctctgtcagc 300
 actgcctatt tgcagatcag cagcctcaaa gctgaggaca cggctgtgta ttactgtgct 360
 aatccctact atgattacgt ctcttactat gctatggact actgggggtca gggaaccacg 420
 gtcaccgtct cctcaggtaa gaatggcctc tcaagctt 458

<210> 7
 <211> 11
 <212> PRT
 <213> Mus sp.

<400> 7
 Lys Ala Ser Gln Asp Val Ser Thr Ala Val Ala
 1 5 10

<210> 8
 <211> 7

<212> PRT
<213> Mus sp.

<400> 8
Ser Ala Ser Tyr Leu Tyr Thr
1 5

<210> 9
<211> 9
<212> PRT
<213> Mus sp.

<400> 9
Gln Gln His Tyr Ser Thr Pro Arg Thr
1 5

<210> 10
<211> 107
<212> PRT
<213> Mus sp.

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

<210> 11
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 11
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 Lys Ala Ser Gln Asp Val Ser Thr Ala
20 25 30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Ser Ala Ser Tyr Leu Tyr 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 Ile Ala Thr Tyr Tyr Cys Gln Gln His Tyr Ser Thr Pro Arg
85 90 95
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 12
<211> 416
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 12
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gacagggtca ccatcacctg caaggccagt caggatgtga gtactgctgt agcctggat 180
caacagaaac caggaaaagc ccctaaacta ctgatttact cggcatccta cctctacact 240
ggagtccctt cacgcttcag tggcagtgga tctgggacgg atttcacttt caccatcagc 300
agtctgcagc ctgaagacat tgcaacatat tactgtcagc aacattatag tactcctcgg 360
acgttcggtc agggcaccaa gctggaaatc aaacgtaagt agaatccaaa gaattc 416

<210> 13
<211> 5
<212> PRT
<213> Mus sp.

<400> 13
Ser His Asp Met Ser
1 5

<210> 14
<211> 17
<212> PRT
<213> Mus sp.

<400> 14
Ala Ile Asn Ser Asp Gly Gly Ser Thr Tyr Tyr Pro Asp Thr Met Glu
1 5 10 15
Arg

<210> 15
<211> 11
<212> PRT
<213> Mus sp.

<400> 15
His Tyr Asp Asp Tyr Tyr Ala Trp Phe Ala Tyr
1 5 10

<210> 16
<211> 120
<212> PRT
<213> Mus sp.

<400> 16
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Glu
1 5 10 15
Ser Leu Lys Leu Ser Cys Glu Ser Asn Glu Tyr Glu Phe Pro Ser His
20 25 30
Asp Met Ser Trp Val Arg Lys Thr Pro Glu Lys Arg Leu Glu Leu Val
35 40 45

Ala	Ala	Ile	Asn	Ser	Asp	Gly	Gly	Ser	Thr	Tyr	Tyr	Pro	Asp	Thr	Met
50						55				60					
Glu	Arg	Arg	Phe	Ile	Ile	Ser	Arg	Asp	Asn	Thr	Lys	Lys	Thr	Leu	Tyr
65				70					75						80
Leu	Gln	Met	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys
			85					90						95	
Ala	Arg	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Trp	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105						110	
Gly	Thr	Leu	Val	Thr	Val	Ser	Ala								
		115					120								

<210> 17
 <211> 120
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 17															
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	Glu	Tyr	Glu	Phe	Pro	Ser	His
			20					25					30		
Asp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Leu	Val
		35					40					45			
Ala	Ala	Ile	Asn	Ser	Asp	Gly	Gly	Ser	Thr	Tyr	Tyr	Pro	Asp	Thr	Met
50						55					60				
Glu	Arg	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	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Trp	Phe	Ala	Tyr	Trp	Gly	Gln
			100					105						110	
Gly	Thr	Met	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 18
 <211> 451
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 18															
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ctgagactct	cctgtgcagc	ctctgaatac	gagttccctt	cccatgacat	gtcttgggtc	180									
cgccaggctc	cggggaagg	gctggagtgt	gtcgcagcca	ttaatagtga	tggtggtagc	240									
acctactatc	cagacacat	ggagagacga	ttcaccatct	ccagagacaa	tgccaagaac	300									
tactgtacc	tgcaaataa	cagtctgagg	gccgaggaca	cagccgtgta	ttactgtgca	360									
agacactatg	atgattacta	cgcctggttt	gcttactggg	gccaaaggac	tatggtcact	420									
gtctcttcag	gtgagtccta	acttcaagct	t			451									

<210> 19
 <211> 15
 <212> PRT
 <213> Mus sp.

<400> 19

Arg Ala Ser Lys Ser Val Ser Thr Ser Gly Tyr Ser Tyr Met His
1 5 10 15

<210> 20

<211> 7

<212> PRT

<213> Mus sp.

<400> 20

Leu Ala Ser Asn Leu Glu Ser
1 5

<210> 21

<211> 9

<212> PRT

<213> Mus sp.

<400> 21

Gln His Ser Arg Glu Leu Pro Leu Thr
1 5

<210> 22

<211> 111

<212> PRT

<213> Mus sp.

<400> 22

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

<210> 23

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

<400> 23

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

50						55						60				
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	
65					70					75					80	
Ser	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	His	Ser	Arg	
				85					90					95		
Glu	Leu	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys		
			100					105					110			

<210> 24
 <211> 428
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 24
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 gggtccactg gtgaaattgt gctgacacag tctcctgcta ccttatcttt gtctccaggg 120
 gaaagggcca ccctctcatg cagggccagc aaaagtgtca gtacatctgg ctatagttat 180
 atgcactggg accaacagaa accaggacag gctcccagac tcctcatcta tcttgcattc 240
 aacctagaat ctgggggtccc tgccagggttc agtggcagtg ggtctgggac agacttcacc 300
 ctcaccatca gcagcctaga gcctgaggat tttgcagttt attactgtca gcacagtagg 360
 gagcttccgc tcacgttcgg cggaggggacc aaggtcgaga tcaaacgtaa gtacactttt 420
 ctgaattc 428

<210> 25
 <211> 5
 <212> PRT
 <213> Mus sp.

<400> 25
 Asp Ala Trp Met Asp
 1 5

<210> 26
 <211> 19
 <212> PRT
 <213> Mus sp.

<400> 26
 Glu Ile Arg Ser Lys Ala Asn Asn His Ala Thr Tyr Tyr Ala Glu Ser
 1 5 10 15
 Val Asn Gly

<210> 27
 <211> 8
 <212> PRT
 <213> Mus sp.

<400> 27
 Gly Glu Val Phe Tyr Phe Asp Tyr
 1 5

<210> 28
 <211> 414
 <212> DNA
 <213> Mus sp.

<400> 28
atgtacttgg gactgaacta tgtattcata gtttttctct taaatgggtgt ccagagtgaa 60
gtgaagcttg aggagtctgg aggaggcttg gtgcaacctg gaggatccat gaaactctct 120
tgtgtcgcct ctggattcac ttttagtgac gcctggatgg actgggtccg ccagtctcca 180
gagaaggggc ttgagtgggt tgctgaaatt agaagcaaag ctaataatca tgcaacatac 240
tatgtctgagt ctgtgaatgg gaggttcacc atctcaagag atgattccaa aagtagtgtc 300
tacctgcaaa tgaacagctt aagagctgaa gacactggca tttattactg tacgtggggg 360
gaagtgttct actttgacta ctggggccaa ggcaccactc tcacagtctc ctca 414

<210> 29
<211> 138
<212> PRT
<213> Mus sp.

<400> 29
Met Tyr Leu Gly Leu Asn Tyr Val Phe Ile Val Phe Leu Leu Asn Gly
1 5 10 15
Val Gln Ser Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30
Pro Gly Gly Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45
Ser Asp Ala Trp Met Asp Trp Val Arg Gln Ser Pro Glu Lys Gly Leu
50 55 60
Glu Trp Val Ala Glu Ile Arg Ser Lys Ala Asn Asn His Ala Thr Tyr
65 70 75 80
Tyr Ala Glu Ser Val Asn Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser
85 90 95
Lys Ser Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
100 105 110
Gly Ile Tyr Tyr Cys Thr Trp Gly Glu Val Phe Tyr Phe Asp Tyr Trp
115 120 125
Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 30
<211> 448
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 30
actagtacca ccatgtactt gggactgaac tatgtattca tagtttttct cttaaagtgt 60
gtccagagtg aagtgaagct ggaggagtct ggaggaggct tggtgcaacc tggaggatcc 120
atgaaactct cttgtgctgc ctctggattc acttttagtg acgcctggat ggactgggtc 180
cgccagtctc cagagaaggg gcttgagtgg gttgctgaaa ttagaagcaa agctaataat 240
catgcaacat actatgctga gtctgtgaat gggagggttca ccactctcaag agatgattcc 300
aaaagtagtg tctacctgca aatgaacagc ttaagagctg aagacactgg cattttattac 360
tgtacgtggg gggaagtgtt ctactttgac tactggggcc aaggcaccac tctcacagtc 420
tcctcaggtg agtccttaaa acaagctt 448

<210> 31
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 31
Met Tyr Leu Gly Leu Asn Tyr Val Phe Ile Val Phe Leu Leu Asn Gly
1 5 10 15
Val Gln Ser Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30
Pro Gly Gly Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45
Ser Asp Ala Trp Met Asp Trp Val Arg Gln Ser Pro Glu Lys Gly Leu
50 55 60
Glu Trp Val Ala Glu Ile Arg Ser Lys Ala Asn Asn His Ala Thr Tyr
65 70 75 80
Tyr Ala Glu Ser Val Asn Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser
85 90 95
Lys Ser Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
100 105 110
Gly Ile Tyr Tyr Cys Thr Trp Gly Glu Val Phe Tyr Phe Asp Tyr Trp
115 120 125
Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
130 135

<210> 32
<211> 11
<212> PRT
<213> Mus sp.

<400> 32
Lys Ser Ser Gln Asp Ile Asn Lys Tyr Ile Ala
1 5 10

<210> 33
<211> 7
<212> PRT
<213> Mus sp.

<400> 33
Tyr Thr Ser Thr Leu Gln Pro
1 5

<210> 34
<211> 8
<212> PRT
<213> Mus sp.

<400> 34
Leu Gln Tyr Asp Asn Leu Leu Thr
1 5

<210> 35
<211> 378
<212> DNA
<213> Mus sp.

<400> 35
atgagaccgt ctattcagtt cctgggggctc ttgttggttct ggcttcatgg tgctcagtgt 60
gacatccaga tgacacagtc tccatcctca ctgtctgcat ctctgggagg caaagtcacc 120
atcacttgca agtcaagcca agacattaac aagtatatag cttgggtacca acacaagcct 180
ggaaaaggctc ctaggctgct catacattac acatctacat tacagccagg catcccatca 240
aggttcagtg gaagtgggtc tgggagagat tattccttca gcatcagcaa cctggagcct 300
gaagatatattg caacttatta ttgtctacag tatgataatc ttctcacgtt cgggtgctggg 360
accaagctgg agctgaaa 378

<210> 36
 <211> 126
 <212> PRT
 <213> Mus sp.

<400> 36
 Met Arg Pro Ser Ile Gln Phe Leu Gly Leu Leu Leu Phe Trp Leu His
 1 5 10 15
 Gly Ala Gln Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
 20 25 30
 Ala Ser Leu Gly Gly Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Asp
 35 40 45
 Ile Asn Lys Tyr Ile Ala Trp Tyr Gln His Lys Pro Gly Lys Gly Pro
 50 55 60
 Arg Leu Leu Ile His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser
 65 70 75 80
 Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser
 85 90 95
 Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp
 100 105 110
 Asn Leu Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
 115 120 125

<210> 37
 <211> 413
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic polynucleotide

<400> 37
 gctagcacca ccatgagacc gtctattcag ttcctggggc tcttggttggt ctggcttcat 60
 ggtgctcagt gtgacatcca gatgacacag tctccatcct cactgtctgc atctctggga 120
 ggcaaagtca ccatcacttg caagtcaagc caagacatta acaagtatat agcttggtac 180
 caacacaagc ctggaaaagg tcctaggctg ctcatacatt acacatctac attacagcca 240
 ggcattcccat caagggttcag tggaagtggg tctgggagag attattcctt cagcatcagc 300
 aacctggagc ctgaagatat tgcaacttat tattgtctac agtatgataa tcttctcacg 360
 ttcggtgctg ggaccaagct ggagctgaaa cgtaagtaca cttttctgaa ttc 413

<210> 38
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic polypeptide

<400> 38
 Met Arg Pro Ser Ile Gln Phe Leu Gly Leu Leu Leu Phe Trp Leu His
 1 5 10 15
 Gly Ala Gln Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
 20 25 30
 Ala Ser Leu Gly Gly Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Asp
 35 40 45
 Ile Asn Lys Tyr Ile Ala Trp Tyr Gln His Lys Pro Gly Lys Gly Pro
 50 55 60
 Arg Leu Leu Ile His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser
 65 70 75 80
 Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser

				85						90					95				
Asn	Leu	Glu	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Asp				
			100					105					110						
Asn	Leu	Leu	Thr	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys						
		115					120					125							

<210> 39
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic primer

<400> 39
 cgctgttttg acctccatag 20

<210> 40
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic primer

<400> 40
 tgaaagatga gctggaggac 20

<210> 41
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic primer

<400> 41
 ctttcttggtc caccttggtg 20

<210> 42
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic primer

<400> 42
 gctgtcctac agtcctcag 19

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

<220>
 <223> Synthetic primer

<400> 43
acgtgccaaag catcctcg

18

<210> 44
<211> 1407
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 44
atgtacttgg gactgaacta tgtattcata gtttttctct taaatgggtg ccagagtga 60
gtgaagctgg aggagtctgg aggaggcttg gtgcaacctg gaggatccat gaaactctct 120
tgtgctgcct ctggattcac ttttagtgac gcctggatgg actgggtccg ccagtctcca 180
gagaagggggc ttgagtgggt tgctgaaatt agaagcaaag ctaataatca tgcaacatac 240
tatgctgagt ctgtgaatgg gaggttcacc atctcaagag atgattccaa aagtagtgtc 300
tacctgcaaa tgaacagctt aagagctgaa gacactggca tttattactg tacgtggggg 360
gaagtgttct actttgacta ctggggccaa ggcaccactc tcacagtctc ctcagcctcc 420
accaagggcc catcgggtctt ccccttgcca ccctcctcca agagcacctc tgggggcaca 480
gcggccctgg gctgcctggt caaggactac ttccccgaac cggtgacggt gtcgtggaac 540
tcaggcgccc tgaccagcgg cgtgcacacc ttcccggtg tcctacagtc ctcaggactc 600
tactccctca gcagcgtggt gaccgtgccc tccagcagct tgggcaccca gacctacatc 660
tgcaacgtga atcacaagcc cagcaacacc aaggtggaca agaaagtga gcccaaattc 720
tgtgacaaaa ctcacacatg cccaccgtgc ccagcacctg aactcctggg gggaccgtca 780
gtcttcctct tcccccaaa acccaaggac accctcatga tctcccggac ccctgaggtc 840
acatgcgtgg tgggtggacgt gagccacgaa gacctgagg tcaagttcaa ctggtacgtg 900
gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg 960
taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 1020
aagtgcgaagg tctccaacaa agccctccca gccccatcg agaaaaccat ctccaaagcc 1080
aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga tgagctgacc 1140
aagaaccagg tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg 1200
gagtggggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 1260
tccgacggct ccttcttctc ctacagcaag ctcaccgtgg acaagagcag gtggcagcag 1320
gggaacgtct tctcatgctc cgtgatgcat gaggtctctgc acaaccacta cacgcagaag 1380
agcctctccc tgtctccggg taaatga 1407

<210> 45
<211> 469
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic polypeptide

<400> 45
Met Tyr Leu Gly Leu Asn Tyr Val Phe Ile Val Phe Leu Leu Asn Gly
1 5 10 15
Val Gln Ser Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30
Pro Gly Gly Ser Met Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45
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Glu Trp Val Ala Glu Ile Arg Ser Lys Ala Asn Asn His Ala Thr Tyr
65 70 75 80
Tyr Ala Glu Ser Val Asn Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser
85 90 95
Lys Ser Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
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Gly Ile Tyr Tyr Cys Thr Trp Gly Glu Val Phe Tyr Phe Asp Tyr Trp
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Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	
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Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Thr	Cys	Asn	Val	
210					215						220					
Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	
225					230					235					240	
Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	
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Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	
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Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	
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Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	
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Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	
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Ala Ser Leu Gly Gly Lys Val Thr Ile Thr Cys Lys Ser Ser Gln Asp
          35           40           45
Ile Asn Lys Tyr Ile Ala Trp Tyr Gln His Lys Pro Gly Lys Gly Pro
          50           55           60
Arg Leu Leu Ile His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser
65           70           75           80
Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser
          85           90           95
Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp
          100          105          110
Asn Leu Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Thr
          115          120          125
Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu
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Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro
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Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly
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Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr
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Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His
          195          200          205
Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val
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Thr Lys Ser Phe Asn Arg Gly Glu Cys
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