

LISTADO DE SECUENCIAS

<110> Fundación Progreso y Salud
Universidad Pablo Olavide

<120> Composición para la prevención o el tratamiento de la diabetes mellitus

<130> 1985.2

<160> 10

<170> PatentIn version 3.5

<210> 1
<211> 23272
<212> DNA
<213> Homo sapiens

<400> 1
cgcctgtaat cccagcactc tgggaggcag aggtgggccg atcacttgag gtcaggagtt 60
cgagaccagc ctgggcaaca tgggtgaaaca ccatctctac taaaaacaca aaaattagcc 120
aggtgtggtg gcaggcacct gcagtcccag ctactccgga ggctgaggca ggagaattgc 180
tcgaacctgg gaggcagggg ttgcagttag cgcacatggc gccactgcac tccagtctgg 240
gcgacagagt gagaccctat ctcaaaaaaa aaaaaaaaaa aaaaagaccc aactcaagta 300
tcctctccag gaagccttcc cctactccca gcaattaaat gctcctcaga gaattcccat 360
ttttggttta ctctttggtt tacctccaga caggaagccc cactgacac tgtttagtgc 420
ccagggtgca acacaaagca gagatcaca gctgagttta ataattgctt gtggaatata 480
tgtcccaagc cacctcctgc aggaagccct tccagatgcc cattctagcc agtctggctc 540
tttgcttcca taccttcaca acacttggtc ctccccagc gcctctttct catcttgctt 600
tctggggcag ctgtgtgcac atttgtctgt gtgcagcaac tctctaaggc agggattttt 660
actcctatct ttgatgaggg gagctgtggc tcagagaggt tgaataacct aaggccacac 720
agtgagtggc agagccagga atgtgacttg ggtccatttg aatccaaagt ccctgtactt 780
tccactgccc tacctagatg tccctgtacc tcctataaaa tcagcatgga gcctgggtgcc 840
tggtagtccc tacaatatatt cacaatttgg agcttagctc agctctcagg caaggcccag 900
gtcaaaaggg cagatacagc tttgggacct tagttgccac cacatgccat accttcttcc 960
cagcagaagg actccctcca agacagggtg ggggtggagg atgtgaacag gggcagaaat 1020
gggcatgttt tggggtcaga cttggaggaa tagcagagat tggagtgtca gaaggtagc 1080
atgcctgggg gtgttgggga gatgcaattc atcagggaca gcttagtgct aggggattag 1140
actggggccc atgaaggaga ggcagaggct gatgggccta ggggtgggtg gggtaggtga 1200
gcttccccag acagtgactc tgccctgccc tctctccagc taggtcctct tccccattcc 1260
ttcccccttt cctgactgga tcctcttggg agagttaccc tccttggtt cctctgctcc 1320
aatcttttta tcagttggcc atcattactt atcattacct caagtcaaac ctccagatcc 1380

acatggggct	aggacattgg	cactggacca	aagaggccct	ttcctttgct	ttctctttgt	1440
ctttttaatg	ctttgttgca	aagacctagg	cggggagaga	gagagagaga	gagagacaga	1500
gattgacca	cagtcaggg	caggggaattg	aggggaacca	acccaattct	ctctccttca	1560
attcaccagg	tttgtatcct	gcccttcctg	cagatcagtg	tcctgctagt	cacctggggg	1620
tcaggggatg	gagtgaagga	caagacctcc	ttccattgca	gtgaagccac	ttggagaaat	1680
gtgtggaaaa	cagcaagacc	cagtgactct	ctcctcacct	tctttccaat	ctcaggagag	1740
attttgtccc	ttcatccacc	ggctttctaga	ttaaccaccc	acaccacac	aggcgagagt	1800
ttccctgaat	attggaggtg	acaggacatc	aggacaaagt	acaactattg	tgccttggcc	1860
caatcactac	tttctttgtc	tggggccgcc	gctggctcct	ggctgccttt	cgcacttttc	1920
tccaccccca	cccctttctc	cccttcccc	tcacctggaa	caccttcccc	ttcctccttg	1980
gctccttctg	aactgccttc	agagccacag	actgtgggga	gtggccactg	cgctcccaag	2040
gtgaggccct	ccaagcgggg	ccgagtttgc	ccctcaactg	ggagccagca	tgacctctgt	2100
gtgggctgct	ctctgcttca	ctgccccctc	ccccaatctg	ctaggtgacc	ctgggcccct	2160
ttgtgccttc	tctgggcctt	cggaggattc	tttggggaga	cagtctgctc	tgacgcccct	2220
tcccctgcag	caagcagcct	ggggagggag	gtgaggataa	gtgaagtcaa	gttgttcagg	2280
gggctaagcc	catggaaggg	aagatgccac	agagatacat	gtggtcttgt	gattgttgtt	2340
ttgtgctttt	tccccTTTTT	tgaaagctca	ggtgactagg	tgacttgagc	ttttaatttg	2400
gtgacaatgt	gggcactggc	tgagtcctta	agagtacatt	gttgtaaagt	ccggtgacaa	2460
cacactgggg	catgggatcc	agagttaacc	cctccagggtc	acagccaggt	tatatctcca	2520
caatgaaggg	gggaggtggg	ccatactttc	tcgccctaata	gaaggtagct	caaaaacccc	2580
taggccaggt	tgtaatccta	gccttatata	aaaggaattc	tgtgccctca	ctcccctgga	2640
tccctgggca	aagccccaga	gggaaacaca	aacaggttgt	tgtaacacac	cttgctgggt	2700
accaccatgg	aggacagtgg	gcttatgggg	gtgggggggtg	cctggggcca	cggagtgact	2760
ggtgatggct	atccctcctt	ggaacccctc	cagcctcctc	ttagcttcag	atttgtttat	2820
ttgtttttta	ctaagacctg	ctctttcagg	tctgttggct	cttttagggg	ctgaagaagg	2880
ccgagttgag	aagggatgca	agggaggggg	ccagaatgag	cccttagggc	tcagagcctc	2940
catcctgccc	caagatgtct	acagcttggtg	ctcctggggg	gctagaggcg	cacaaggagg	3000
aaagttagtg	gcttcccttc	catatcccgt	tcatcagcct	agagcatgga	gcccaggtga	3060
ggaggcctgc	ctgggagggg	gccctgagcc	aggaaataaa	catttactaa	ctgtacaaaag	3120
accttgtccc	tgctgctggg	gagcctgcca	agtgggtggag	acaggactag	tgcacgaatg	3180
atggaaaggg	agggttgggg	tgggtgggag	ccagcccttt	tcctcataag	ggccttagga	3240
caccataccg	atggaactgg	gggtactggg	gaggtaacct	agcacctcca	ccaaaccaca	3300
gcaacatgtg	ctgaggatgg	ggctgactag	gtaagctccc	tggagcggtt	tggttaaatt	3360

gagggaaatt gctgcattcc cattctcagt ccatgcctcc acagaggcta tgccagctgt	3420
aggccagacc ctggcaagat ctgggtggat aatcagactg actggtccca ctcttcccac	3480
aggcctcaga gcccgaactt tgttccctgg ggcagcctgg aaatagccag gtcagaaacc	3540
agctaggaat ttttccaagc tgcttcctat atgcaagaat gggatggggc ctttgggagc	3600
acttagggaa gatgtggaga gttggaggaa aagggggctt ggaggtaagg gaggggactg	3660
ggggaaggat aggggagaag ctgtgagcct ggagaagtag ccaagggatc ctgagggaat	3720
gggggagctg agacgaaacc cccattttcta ttcagaagat gagctatgag tctgggcttg	3780
ggctgataga agccttggcc cctggcctgg tgggagctct gggcagctgg cctacagacg	3840
ttccttagtg ctggcgggta ggtttgaatc atcacgcagg ccctggcctc caccgcccc	3900
caccagcccc ctggcctcag ttccctggca acatctgggg ttgggggggc agcaggaaca	3960
agggcctctg tctgcccagc tgcctcccc tttgggtttt gccagactcc acagtgcata	4020
cgtgggctcc aacaggctct cttccctccc agtcactgac taaccccgga accacacagc	4080
ttcccgttct cagctccaca aacttgggtgc caaattcttc tcccctggga agcatccctg	4140
gacactttcc aaaggacccc agtcactcca gcctgttggc tgccgctcac tttgatgtct	4200
gcaggccaga tgagggtctc agatggcaca ttgtcagagg gacacactgt ggcccctgtg	4260
cccagccctg ggctctctgt acatgaagca actccagtcc caaatatgta gctgtttggg	4320
aggtcagaaa taggggggtcc aggagcaaac tccccccacc ccctttccaa agccccattcc	4380
ctcttttagcc agagccgggg tgtgcagacg gcagtcacta gggggcgctc ggccaccaca	4440
gggaagctgg gtgaatggag cgagcagcgt cttcgagagt gaggacgtgt gtgtctgtgt	4500
gggtgagtga gtgtgtgctg gtgggggttg gggcgttgga gcggggagaa ggccaggggt	4560
cactccagga ttccaataga tctgtgtgtc cctctcccca cccgtccctg tccggctctc	4620
cgccttcccc tgcccccttc aatattccta gcaaagaggg aacggctctc aggccctgtc	4680
cgcacgtaac ctacttttc tgctccctcc tcgccaatgc cccgcgggcg cgtgtctctg	4740
gacagagttt ccgggggcg atgggtaatt ttcaggctgt gaaccttggg gggggtcgag	4800
cttccccctc attgcgggcg gctgcgggcc aggccttact gagcgtccgc agagcccggg	4860
cccagccgc gtgtggaagg gctgaggctc gcctgtcccc gcccccggg gcgggccggg	4920
ggcgggggtcc cggcggggcg gagccatgcg cccccccctt ttttttttaa aagtcggctg	4980
gtagcgggga ggatcgcgga ggcttggggc agccgggtag ctcggaggtc gtggcgctgg	5040
gggctagcac cagcgtctctg tcgggaggcg cagcggttag gtggaccggt cagcggactc	5100
accggccagg gcgctcggtg ctggaatttg atattcattg atccgggttt tatccctctt	5160
cttttttctt aaacattttt ttttaaaact gtattgtttc tcgttttaat ttatttttgc	5220
ttgccattcc ccacttgaat cgggccgacg gcttggggag attgctctac ttccccaaat	5280
cactgtggat tttggaaacc agcagaaaga ggaaagaggt agcaagagct ccagagagaa	5340

gtcgaggaag	agagagacgg	ggtcagagag	agcgcgcggg	cgtgcgagca	gcgaaaagcga	5400
caggggcaaa	gtgagtgacc	tgcttttggg	ggtgaccgcc	ggagcgcggc	gtgagccctc	5460
ccccttgggg	tcccgcagct	gaccagtcgc	gctgacggac	agacagacag	acaccgcccc	5520
cagccccagc	taccacctcc	tccccggccg	gcggcgagaca	gtggacgcgg	cggcgagccg	5580
cgggcagggg	ccggagcccc	cgcccgagg	cggggtggag	ggggtcgggg	ctcgcggcgt	5640
cgcactgaaa	cttttcgtcc	aacttctggg	ctgttctcgc	ttcggaggag	ccgtggtccg	5700
cgcgggggaa	gccgagccga	gcggagccgc	gagaagtgt	agctcgggcc	gggaggagcc	5760
gcagccggag	gagggggagg	aggaagaaga	gaaggaagag	gagagggggc	cgcagtggcg	5820
actcggcgct	cggaagccgg	gctcatggac	gggtgaggcg	gcggtgtgcg	cagacagtgc	5880
tccagcccg	cgcgtcccc	aggccctggc	ccgggcctcg	ggccggggag	gaagagtagc	5940
tcgccgaggc	gccgaggaga	gcgggcccgc	ccacagcccc	agccggagag	ggagcgcgag	6000
ccgcgccggc	cccggtcggg	cctccgaaac	catgaacttt	ctgctgtctt	gggtgcattg	6060
gagccttgcc	ttgctgtctt	acctccacca	tgccaaggta	agcggtcgtg	ccctgctggc	6120
gccgcggggc	gctgcgagcg	cctctcccgg	ctggggacgt	gcgtgcgagc	gcgcgcgtgg	6180
gggctccgtg	ccccacgcgg	gtccatgggc	accaggcgtg	cggcgtcccc	ctctgtcgtc	6240
ttaggtgcag	ggggaggggg	cgcgcgcgct	agggtggagg	gtacccggag	agaggctcac	6300
cgcccacgcg	ggccctgccc	accacccgga	gtcaccgcac	gtacgatctg	ggccgaccag	6360
ccgagggcgg	gagccggagg	aggaggccga	gggggctggg	cttgcgttgc	cgctgccggc	6420
tgaagtttgc	tcccggccgc	tggtcccgga	cgaactggaa	gtctgagcag	cgggggagg	6480
agccagagac	cagtgggcag	ggggtgctcg	gaccttggac	cgcgggagg	cagagagcgt	6540
ggagggggca	gggcgcagga	gggagagggg	gcttgctgtc	actgccactc	ggtctcttca	6600
gccctcgccg	cgagtttggg	aaaagttttg	gggtggattg	ctgcggggac	ccccctccc	6660
tgctggggca	cctgcgccgc	gccaacccc	cccgtcccc	ctcgcgtccc	gctcggtgcc	6720
cgccctcccc	cgcccgccg	ggtgcgcgcg	gcgcggagcc	gattacatca	gcccgggcct	6780
ggccggccgc	gtgttcccgg	agcctcggct	gcccgaaatg	ggagcccaga	gtggcgagcg	6840
gcacccctcc	ccccgccagc	cctccgcggg	aaggtagacct	ctcgaggtag	ccccagcccc	6900
gggatccaga	gaaccatccc	taccccttcc	tactgtctcc	agaccctacc	tctgcccagt	6960
gctaggagga	atttcctgac	gccccttctc	ttcacccatt	tccttttttag	cctggagaga	7020
agcccctgtc	accccgttta	ttttcatttc	tctctgcgga	gaagatccat	ctaaccctt	7080
tctggcccca	gagtccaggg	aaaggatgat	cactgtcaga	agtcgtggcg	cgggagccca	7140
ctgggcgctt	tgtcacattc	caccgaaagt	cccgaacttg	tgacagtgtg	cttcccttcc	7200
ctcgccaaca	gttccgagtg	agctgtgctt	tagctctcgt	gggggtgggt	caagggagga	7260
tttgaagagt	cattgcccc	ctttaccctt	ttggagaaat	ggcttgaaat	ttgctgtgac	7320

acgggcagca	tgggaatagt	ccttcctgaa	ccctggaaag	gagctcctgc	cagccttgca	7380
cacactttgt	cctggtgaaa	ggcagccctg	gagcaggtgt	ttttttggaa	ctccaaacct	7440
gcccacccaa	cttgcttctg	aaagggactc	taaaggggcc	ctttccgctc	ctctctgacg	7500
ccttcctca	gccagaattc	ccttgagag	gaggcaagag	gaaagccatg	gacaggggtc	7560
gctgctaaca	ccgcaagttc	ctcagaccct	ggcacaaagg	ccttggtctac	aggcctccaa	7620
gtagggagga	gggggaggag	tggctgcctg	gccacagtgt	gaccttcaga	ggcccccaga	7680
gaaggacacc	tggccctgc	ctgcctagaa	ccgcccctcc	tgtgctccct	ggccttgcaa	7740
ggggtatgaa	atttccgtcc	cctttcctcc	ttggggccca	ggaggagtgg	agggtcccgg	7800
gagaatattg	tcagggggaa	ggcagggggg	gtcatgggaa	tgggtgaggg	ggctgaggtg	7860
cagaatccag	ggggctccctg	caggagccgc	agtggtaagc	tgtccagctg	gaagcctggt	7920
aactgttgtt	ttctcttgag	aggggcttcc	tgtgaccttg	gctgtctctg	ggagcagggc	7980
tggggtacct	gagtgggggtg	catttggggg	gtgtgggaag	gagagggaaa	gaaagatgga	8040
cagtgggact	ctcccctagc	agggctctgg	gttccgtagg	ctagagtgcc	cctctgctct	8100
gcgagtgtg	ggcgggaggg	gagttggtga	gagctggaga	cccccaggaa	gggctggcag	8160
aagcctttcc	ttttgggtgc	tgtcaggtcc	gcatgtcttg	gcgtgttgac	cttcacagct	8220
tctggcgagg	ggaggaatga	tctgatgcgg	gtggggaggg	ttagaggagg	cctcaggcct	8280
aaggtggtgc	agggggcccc	ctaggggctg	ggcagtgcca	aggcataaaa	gccttccctg	8340
gtccctggtg	gcatttgaag	gtgcccaggt	gagaggggct	tggcacctcc	tcaccctggg	8400
agggagaaga	aaccagggaa	caggtaggag	tgggagacag	gtgaggcttt	ggaaatctat	8460
tgaggctctg	gagagatttg	tgtagagagg	aaaatgtggt	tctccccag	ggtctcctcc	8520
tgggttttta	ccctctaagc	aacctgtggg	catgctgggt	tattcctaag	gactagaaga	8580
gcttggtggtg	gggaggggtg	ttggtgccct	tcggctcctg	gcacccccct	ccgtctccaa	8640
caccagctca	ccctggtatt	tgtcatgtca	gcaggagaag	gtcaccatgt	tgtttttctc	8700
gcccctagtc	cttccttcc	gccccagtcc	aaatttgtcc	tcctatttga	ccttaatact	8760
taccatggct	ttggaccagg	gaactagggg	gatagtgaga	gcagggagag	ggaagtgtgg	8820
ggaaggtaca	ggggacctcg	acagtgaagc	attctggggg	tttcctcctg	catttcgagc	8880
tccccagccc	ccaacatctg	gttagtcttt	aacttcctcg	ggttcataac	catagcagtc	8940
caggagtggg	gggcatattc	tgtgcccgtg	gggacccccg	gttggtgcct	gttcgactca	9000
gaagacttgg	agaagccaga	ggctgttggg	gggaggggaa	tgaggagggg	ggaggggctg	9060
ggtggctggg	cctgtgcacc	ccagcccctg	cccatgcccc	tgccctgctc	tctttctgtc	9120
ctcagtggtc	ccaggctgca	cccatggcag	aaggaggagg	gcagaatcat	cacgaagggtg	9180
agtccccctg	gctgttggat	ggggttccct	gtcctctcag	gggatgggtg	gatggcctaa	9240
ttcctttttc	ttcagaactg	tggggaggaa	ggggaagggg	cacaggaata	taaggatcaa	9300

gaaagaaaga gctgggcacc acgagggttca ccctcagttt cgtgaggact ctccgctgtt	9360
caggtctctg ctagaagtag gacttggtgc ctttttcttc tgctctttcc agtaaaattt	9420
tatttggaga aggagtcgtg cgcacagagc aggaagacag tgttcagggga tcctaggtgt	9480
tgggggaagt gtcccttggt tcccctagct cccaggggag agtggacatt tagtgtcatt	9540
tcctatatag acatgtccca tttgtgggaa ctgtgaccct tcctgtgtga gctggaggca	9600
cagagggtc agcctaattg gatctctcct cccttccctg gtttgcatte ctttgggggt	9660
ggagaaaacc ccatttgact atgttcgggt gctgtgaact tccctcccag gccagcagag	9720
ggctggctgt agctcccagg cgccccgccc ccctgcccga ccccgagtcc gcctgccttt	9780
tgttccgttg tggtttgat cctcccattt ctctggggac accctggctc tccccaccac	9840
tgactgtggc ctgtgctctc cacctctggg gaggaaggc cctgggtct tccttcccgc	9900
gagtttcct gacctaaatc tggcgtggct gggtagtggc cagcagtggg gatgcccagc	9960
ctgttctgcc tcctccttcc ccaccccagg agccctttcc ttggcctagg acctggcttc	10020
tcagccactg accggcccc tgcttccagt gcgccactta ccccttccag cttcccagt	10080
gtctctggtc tgggagaggc aggacaaagg tctttgtttg ctggagaaaa ggttgtctgc	10140
gataaataag gaaaaccacg aaagcctggg tgttgagtg tacgtgtgtg cttccccagg	10200
cagtggaggc cagccctcct tggaggggag gctgcctgat gaaggatgcg ggtgaggttc	10260
cccgctcca cctcccatgg gacttgggga ttcatccaa ggggaagctt tttgggggaa	10320
ttcctacccc aggtcttttt accctcagtt accaaccctc tgcccaggcc agaccttct	10380
gctatcccct cctggggccac aagcctggcc ctctctgtc ccaattgtga tgaaggggca	10440
gttcaaaact tcttgattag tcactcttct ccctatcgac ttggctttaa aaaatgacct	10500
tttcagactt ctagtctcgt tcactcttct tgatgatgct ttgccgtaac cttcgtggg	10560
tagagaagga ttctgtgcc attggtggtc tggataaaag aaatagagac ctcacaggaa	10620
gcagtggact ggcctgtttc cccactgttc tttctgtttt cacacctgtg gccttctccc	10680
caccttcttc ccaatcaacc tattgtgtac atagcccccc tcattgtcct ttattcttct	10740
ggaaagcaga ccttgagggg aggagtgagg gggaggctca gctgtggtct ctgggggggtg	10800
gggggtggga gctgggggtg aagtccacga agcatacact taagatgctt tggatgaagt	10860
ctaaacttca tattaccag gctgaaaaaa gagcacttgt tcctagggct ggaaatggaa	10920
gccaaaacac cacttttttc agcctgtttc agcatcttta gagatcagcc caaccactt	10980
acacagtga gcagagttgg aggcctagag aggggagggga ctggcccaag gtcataccaa	11040
ctcatggcca gagcctgggc ctctcactg gccagggtgt atttcttccc tctgggtagg	11100
gaacctatct caggagacagg attgctatgt ggtagtgggt gtgggggtgc ataggcgtg	11160
caggctgggc cacaatttgg agtagtcatg ccagagtcct gcatttatct attctcaagg	11220
gccccgcctc tgtggcccag aattaccct tcattgctcca gtgcacccca ggcttcgtgg	11280

ccagcctggg	aaactgtctc	taccctggtc	tcccttcaga	tcagcttcta	gaaatgtttc	11340
gtggctacag	tggcagcact	gttttttcca	tgatgcaagc	agtttgccct	cttgggcggg	11400
gttatcagtg	gctggcaggg	ctggcacagc	gtgtccgccc	actgccacct	gtgggttcca	11460
ggagggccca	gcccctgtgc	tgatgcccac	caccttctca	gctcatgtct	ggggaagagg	11520
actggcaggg	ggaaaggtgc	ctcctcctga	aaggtgcctc	ctctgttttt	gcctaataata	11580
ggcttgggaa	cactttgatg	tcagctaatt	ctgactcctt	tacttactag	ctgtgcggcc	11640
ttggggcaac	ttacttagcc	tctttgagcc	tcctgttccc	catctgtaaa	atggaatctc	11700
aatagtgtct	aatagtagca	tgtggagaaa	cttgtgtgaa	atgatagctg	tggactactg	11760
tacacagtac	tcaggatgta	gtaagtgtc	aataaacagc	tgttggtatg	gttgacgtta	11820
tggtagtggt	tgtggggagg	acgtaggaaa	ctggagacta	gcttggcaaa	gctggctctt	11880
cctcctttta	gggaaagctt	agagcatccc	catgggggat	acccatactc	agactgtcct	11940
ctggcatcga	ggttggccca	ggattcagtt	cagctgtcac	agtgagggtg	cgggatcaga	12000
tgtggcaggc	catgtccctt	ggaacttgag	tacatcgtgt	gatctctgga	atgaaaacag	12060
gccttcacca	gtgttgatgg	tggaaagctt	agggaaagtgc	ttcaaacaca	gtaggagggg	12120
cttacgttag	atthttggaag	gacttgccctg	attcggaagc	tccaaagagt	ggcattacag	12180
agctgggttg	agagaggggc	tagccatctt	ttgtgtcgcc	caccgggctc	atgtgtcatc	12240
gcctctcatg	cagtgggtgaa	gttcatggat	gtctatcagc	gcagctactg	ccatccaatc	12300
gagaccctgg	tggacatctt	ccaggagtac	cctgatgaga	tcgagtacat	cttcaagcca	12360
tcctgtgtgc	ccctgatgcg	atgcgggggc	tgctgcaatg	acgagggcct	ggagtgtgtg	12420
cccactgagg	agtccaacat	caccatgcag	gtgggcatct	ttgggaagtg	gggcaagggg	12480
gggatagggg	ggggggtaac	actttgggaa	caggtggtcc	caggtcgttt	cctggctaga	12540
tttgcccttgt	ctggctcctg	cccctgagtt	gcacagggga	ggtaggtggg	ggtcttgccct	12600
tctgtggaga	agatgcttca	ttcccagccc	aggttcccag	caagcccca	ccatctcctt	12660
ctccctgatg	gttgcccatg	ggctcaggag	gggacagatg	gatgcctgtg	tcaggagccc	12720
ctctctccct	ctcttgagga	gagtcctgag	tgccccccct	tcttgggggc	tttgtttggg	12780
aagctggatg	agcctggtcc	atggagagtt	taaaaagtct	tttgggtgta	cctggtaatg	12840
gggcacatct	cagcccagat	aggggtgggag	ggagctgtga	aacacagggg	gggggttgct	12900
ttcggttatc	tactaggagt	caggggtgaag	cctagagagg	atgaaagaag	gggaggggat	12960
ggggagtggg	aagaacctag	gatttgaatt	cccagcctgg	ccaacccttg	cagccatgtc	13020
ttggcctcaa	gtggaacaag	ggctccttga	ggccagcagg	gttgggggag	ttgggggtggg	13080
cctgagcctc	tttcttgcta	gagctcttgg	tcctccctgc	ctccaccacc	catccctgct	13140
ctgcagaacc	cctgggtgct	gagtggcagg	agccccaggg	ttgtcccatc	tgggtatggc	13200
tggctgggtc	actaacctct	gtgatctgct	tccttccttt	ccagattatg	cggatcaaac	13260

ctcaccaagg	ccagcacata	ggagagatga	gcttcctaca	gcacaacaaa	tgtgaatgca	13320
ggtgaggatg	tagtcacgga	ttcattatca	gcaagtggct	gcagggtgcc	tgatctgtgc	13380
cagggttaag	catgctgtac	tttttgcccc	ccgtccagct	tcccgtatg	tgacctttgg	13440
cattttactt	caatgtgcct	cagtttctac	atctgtaaaa	tgggcacaat	agtagtatac	13500
ttcatagcat	tgttataatg	attaaacaag	ttatatatga	aaagattaaa	acagtgttgc	13560
tccataataa	atgctgtttt	tactgtgatt	attattgttg	ttatccctat	cattatcatc	13620
accatcttaa	cccttccctg	ttttgtcttt	ttctctctcc	ctaccattg	cagaccaaag	13680
aaagatagag	caagacaaga	aaagtaagtg	gccctgactt	tagcacttct	ccctctccat	13740
ggccggttgt	cttggttttg	ggctcttggc	tacctctgtt	gggggctccc	atagcctccc	13800
tgggtcaggg	acttggtctt	gtgggggact	tgtggtggca	gcaacaatgg	gatggagcca	13860
actccaggat	gatggctcta	gggctagtga	gaaaacatag	ccaggagcct	ggcacttcct	13920
ttggaaggga	caatgccttc	tgggtctcca	gatcattcct	gaccaggact	tgctgtttcg	13980
gtgtgtcagg	gggcactgtg	gacactggct	actggcttg	ctctaggaca	cccacagtgg	14040
ggagagggag	tgggtggcag	agaggccagc	ttttgtgtgt	cagaggaaaat	ggcctctttt	14100
ggtggctgct	gtgacggtgc	agttggatgc	gaggccggct	ggagggtggt	ttctcagtgc	14160
atgccctcct	gtaggcggca	ggcggcagac	acacagccct	cttggccagg	gagaaaaagt	14220
tgaatgttgg	tcattttcag	aggcttgtga	gtgctccgtg	ttaaggggca	ggtaggatgg	14280
ggtgggggac	aaggtctggc	ggcagtaacc	cttcaagaca	gggtgggcgg	ctggcatcag	14340
caagagcttg	cagggaaaga	gagactgaga	gagagcacct	gtgccctgcc	ctttcccca	14400
caccatcttg	tctgcctcca	gtgctgtgcg	gacattgaag	ccccaccag	gcctcaaccc	14460
cttgcctctt	ccctcagctc	ccagcttcca	gagcgagggg	atgcggaaac	cttccttcca	14520
ccctttggtg	ctttctccta	agggggacag	acttgccctc	tctggctcct	tctccccctc	14580
ctttcttccc	tgtgacagac	atcctgaggt	gtgttctctt	gggcttggca	ggcatggaga	14640
gctctggttc	tcttgaaggg	gacaggctac	agcctgcccc	ccttcctggt	tccccaaatg	14700
actgctctgc	catggggaga	gtagggggct	cgcctgggct	cggaagagtg	tctggtgaga	14760
tgggtgtagca	ggctttgaca	ggctggggag	agaactccct	gccaagtacc	gccaagcct	14820
ctcctcccca	gacctcctta	actcccaccc	catcctgctg	cctgcccagg	gctccaggac	14880
accagccct	gcctcccagt	ccaggctcgtg	ctgagcaggc	tgggtgttgct	cttgggtccg	14940
tgccagctcc	caaggtagcc	gcttcccca	caccgggatt	cccagagggt	ctgtcgcagt	15000
tgcaaatgaa	ggcacaaggc	ctgatacaca	gccctccctc	ccactcctgc	tccccatcca	15060
ggcagggtctc	tgaccttctc	cccaaagtct	ggcctacctt	ttatcacccc	cggaccttca	15120
gggtcagact	tggacagggc	tgctgggcaa	agagccttcc	ctcaggcttt	gccccctgcc	15180
ggggactggg	agccactgtg	agtgtggaga	cctttgggtc	ctgtgccctc	caccagctct	15240

cggcttccca	ccaaagcctt	gtcaggggct	gggtttgcca	tcccatgggtg	ggcagcgtga	15300
ggagaagaaa	gagccatcga	gtgcttgctg	cccagacacg	cctgtgtgcg	cccgcgcatg	15360
cctccccaga	gaccacctgc	ctcctgacac	ttcctccggg	aagcggccct	gtgtggcttt	15420
gctttgggtcg	ttcccccatc	cctgcccacc	ttaccacttc	ttttactccc	cccaccgccc	15480
ccgctctctc	tctgtctctg	tttttttatt	ttccagaaaa	tcagttcgag	gaaagggaaa	15540
ggggcaaaaa	cgaaagcgca	agaaatcccc	gtataagtcc	tggagcgtgt	acgttggtgc	15600
ccgctgctgt	ctaatgccct	ggagcctccc	tggccccag	tacaacctcc	gcctgccatt	15660
ccctgtaacc	ctgcctccct	cccctgggtcc	ttccctgggt	ctcatcctcc	tggcccggtg	15720
ctctctctca	ctctctcact	ccactaattg	gcaccaacgg	gtagatttgg	tggtggtgatt	15780
gctgggtccag	gggtgggggtg	aatgggggtg	ccgacttggc	ctggaggatt	aagggagggg	15840
accctggctt	ggctgggcac	cgattttctc	tcacccactg	ggcactgggtg	gcgggccccat	15900
gttggcacag	gtgcctgctc	acccaactgg	tttccattgc	tctaggcttc	tgactcgtc	15960
tggaagctga	gggtgggtggg	gagggcagac	atggcccaag	aagggtgtgt	aatgactgga	16020
ggcagcttgc	tgaatgactc	cttgggtgaa	ggaggagctt	gggtgggatc	agacaccatg	16080
tggcggcctc	ccttcatctg	gtggaagtgc	cctggctcct	cacggagggtg	gggcctctgg	16140
aggggagccc	cctattccgg	cccaacccat	ggcaccacac	gaggcctcct	tgcagggcag	16200
cctcttcctc	tgggtcggag	gctgtgggtg	gccctgccct	gggccctctg	gccaccagcg	16260
gcctggcctg	gggacaccgc	ctccgggctt	agcctcccat	cacaccctac	tttagccac	16320
cttgggtgga	gggcctggac	atgagccttg	cacggggaga	aggtggcccc	tgattgccat	16380
ccccagcagg	tgaagagtca	aggcgtgctc	cgatgggggc	aacagcagtt	gggtccctgt	16440
ggcctgagac	tcacccttgt	ctcccagaga	cacagcattg	ccccttatgg	cagcctctcc	16500
ctgcactctc	tgcccgtctg	tgccgcctc	ttcctgcggc	aggtgtccta	gccagtgtg	16560
cctctttccg	ccgctctctc	tgtcttttgc	tgtagcgctc	ggatccttcc	agggcctggg	16620
ggctgaccgg	ctgggtgggg	gtgcagctgc	ggacatgtta	gggggtgttg	catggtgatt	16680
ttttttctct	ctctctgctg	atgctctagc	ttagatgtct	ttccttttgc	ctttttgcag	16740
tccctgtggg	ccttgctcag	agcggagaaa	gcatttgttt	gtacaagatc	cgcagacgtg	16800
taaatgttcc	tgcaaaaaca	cagactcgcg	ttgcaaggcg	aggcagcttg	agttaaacga	16860
acgtacttgc	aggttggttc	ccagagggca	agcaagtcag	agaggggcat	cacacagaga	16920
tggggagaga	gagagagaaa	gagagtgagc	gagcgagcga	gcgggagagc	gcctgagagg	16980
ggccagctgc	ttgctcagtt	tctagctgcc	tgccctgggtga	ctgctgcctt	ctctgctttt	17040
aaggccccctg	tgggtgggctg	caggcactgg	tccagcctgg	cggggcctgt	tccgagggtg	17100
ccctggttgc	ctgagtggta	ggctgggtgtg	gcttagtgta	gtgggtgtgga	cgcaagctgt	17160
gtgttgtgtc	ctgtgggtcct	tctgctcata	gtggctgttg	gtcctgatgt	tattactacc	17220

tctggtagta	atgctgagaa	gctgaaagcc	gattccaggt	gtggacaatg	tcaacaaagc	17280
acagatgctc	tcgctggggc	cttgccctcg	ccctttgaag	tctgcatggc	tgggcttctc	17340
actcactcag	tgtttcttgc	tgggggaagg	aattgagtct	cccacttcag	actgggcctc	17400
cctgaggaaa	gggttgtgtc	tccccactca	gactgagggt	ccctgagggt	agggctgtgt	17460
ctctcccctc	cgacctgggc	tccctgatag	ggctgtctcc	ccgctcagac	tgaggctccc	17520
tcaggccagg	gctatgtctc	cctcctcaga	ctggggctct	gagggcaagg	ggtctggctg	17580
ttcgtttagg	atggggcact	tttgccata	cactgaagga	gctgtagcat	ccaagaatac	17640
tagatacctt	taatcctcca	ccagtcatgg	tgacaacccc	aagcagccca	cacattttca	17700
agtgccccca	ggatgcgtgg	aggaggggg	ctgtgccc	tctcctgaca	ttagcctgtg	17760
agctccgtaa	gcccgggcct	cgtttacgta	cctttgtgag	ccccgggcat	ctgtacctct	17820
ttcctttgcc	catactgggg	accaaggaag	tgtcaagtgc	atgagtgaat	gtgtgactca	17880
gttcagaggg	tgaggtcagg	agcacagggt	cgggacaggt	ggctggcatc	ttttaatgcc	17940
ttagcttatg	ttctttatac	caacttggcc	tgtgctcaga	gtgagggagg	ccctgggggt	18000
cagggtaagc	gtcagtcagg	gaggcaagac	tttgtgggga	tttcctagac	agggccaagg	18060
cacccccagc	tcaccccgag	gctgtgttag	ggaagtcctt	ggagtgtctc	ccctccccca	18120
gcaatgttct	tgtggcttgt	gtgtgctcag	gggatgctgg	gaaccaggcc	tgggtagttg	18180
gtgtgggggtg	ctgtctgtct	tggccctatg	tgaaaccaag	agggcgtata	ttagtgctgg	18240
ggtgggggct	ctgcctaact	tcagggctgg	atgaggggag	tctcagttcc	ccagggttcc	18300
ttgggaaaga	taagggaact	gacatttttag	ggtttttagg	tgattattct	gctgatgggg	18360
gtttgtgtga	agtgacctgg	gagctaactg	aagttactct	aacctcccaa	tacctttacc	18420
caacccccaa	gctggctgta	tctgggaata	tcagtttcca	aaattggagg	cttaggactc	18480
cgtttcgggg	ctccccagaa	gggtagggcc	tgttctgcct	ccttctcaca	atcaccagg	18540
ggcaggggca	tgctgagaaa	gttcttgagg	gccccctttg	cttcagctgg	agtagtgaag	18600
ccgccgaatt	gtctctcccc	atcctaagt	aagcagcata	tttgaaagga	aagacaacct	18660
gttacctggg	cctgcaacct	ccaggcagct	caagagagat	gaggcctaca	gccacagtgg	18720
gaggggacat	ggggaatgga	gatgggtccct	caccttcctg	gggcctcctg	ctctacgcta	18780
ccccctcggg	agcctcctgt	ccccagggca	ggcccttgcc	attgttggtc	acccggccaa	18840
gcctctctgc	ctcaggcggt	ctcccagaag	atctgcccac	tctcttcccc	acaccagccc	18900
ctagagactg	aactgaaaac	cctcctcagc	agggagcctc	ttctgattaa	cttcatccag	18960
ctctggtcac	ccatcagctc	ttaaaatgtc	aagtggggac	tgttctttgg	tatccgttca	19020
tttgttgctt	tgtaaagtgt	tcccatgtcc	ttgtcttgtc	tcaagtagat	tgcaagctca	19080
ggagggtaga	ctgggagccc	ctgagtggag	ctgctgtc	ggccggggct	ccctgagggc	19140
agggctgggg	ctgttctcat	actggggctt	tctgccccag	gaccacacct	tcctgtcctc	19200

tctgctctta	tggtgccgga	ggctgcagtg	accagggggc	ccccaggaat	ggggaggccg	19260
cctgcctcat	cgccaggcct	cctcacttgg	ccctaacccc	agcctttggt	ttccatttcc	19320
ctcagatgtg	acaagccgag	gcggtgagcc	gggcaggagg	aaggagcctc	cctcagggtt	19380
tcgggaacca	gatctctcac	caggaaagac	tgatacagaa	cgatcgatac	agaaaccacg	19440
ctgccgccac	cacaccatca	ccatcgacag	aacagtcctt	aatccagaaa	cctgaaatga	19500
aggaagagga	gactctgcgc	agagcacttt	gggtccggag	ggcgagactc	cggcggaagc	19560
attcccgggc	gggtgaccca	gcacggtccc	tcttggaatt	ggattcgcca	ttttattttt	19620
cttgctgcta	aatcaccgag	cccggaagat	tagagagttt	tatttctggg	attcctgtag	19680
acacaccac	ccacatacat	acatttatat	atatatatat	tatatatata	taaaaataaa	19740
tatctctatt	ttatatatat	aaaatatata	tattcttttt	ttaaattaac	agtgtctaatg	19800
ttattggtgt	cttcaactga	tgtatttgac	tgctgtggac	ttgagttggg	aggggaatgt	19860
tcccactcag	atcctgacag	ggaagaggag	gagatgagag	actctggcat	gatctttttt	19920
ttgtccact	tggtggggcc	agggtcctct	cccctgcca	ggaatgtgca	aggccagggc	19980
atgggggcaa	atatgaccca	gttttgggaa	caccgacaaa	cccagccctg	gcgctgagcc	20040
tctctacccc	aggtcagacg	gacagaaaga	cagatcacag	gtacagggat	gaggacaccg	20100
gctctgacca	ggagtttggt	gagcttcagg	acattgctgt	gctttgggga	ttccctccac	20160
atgctgcacg	cgcatctcgc	ccccaggggc	actgcctgga	agattcagga	gcctgggcgg	20220
ccttcgctta	ctctcacctg	cttctgagtt	gcccaggaga	ccactggcag	atgtcccggc	20280
gaagagaaga	gacacattgt	tggaagaagc	agcccatgac	agctcccctt	cctgggactc	20340
gccctcatcc	tcttcctgct	ccccttcctg	gggtgcagcc	taaaaggacc	tatgtcctca	20400
caccattgaa	accactagtt	ctgtcccccc	aggagacctg	gttgtgtgtg	tgtgagtggg	20460
tgaccttcct	ccatcccctg	gtccttcctt	tcccttcccg	aggcacagag	agacagggca	20520
ggatccacgt	gcccattgtg	gaggcagaga	aaagagaaag	tgttttatat	acggtactta	20580
tttaatatcc	ctttttaatt	agaaattaaa	acagttaatt	taattaaaga	gtagggtttt	20640
ttttcagtat	tcttggttaa	tatttaattt	caactattta	tgagatgtat	cttttgctct	20700
ctcttgctct	cttatttgta	ccggtttttg	tatataaaat	tcatgtttcc	aatctctctc	20760
tccctgatcg	gtgacagtca	ctagcttata	ttgaacagat	atttaatttt	gctaacactc	20820
agctctgccc	tccccgatcc	cctggctccc	cagcacacat	tcctttgaaa	taagggttca	20880
atatacatct	acatactata	tatatatttg	gcaacttgta	tttgtgtgta	tatatatata	20940
tatatgttta	tgtatatatg	tgattctgat	aaaatagaca	ttgctattct	gttttttata	21000
tgtaaaaaca	aaacaagaaa	aaatagagaa	ttctacatac	taaatctctc	tcctttttta	21060
attttaatat	ttgttatcat	ttatttattg	gtgctactgt	ttatccgtaa	taattgtggg	21120
gaaaagatat	taacatcacg	tctttgtctc	tagtgcagtt	tttcgagata	ttccgtagta	21180

catatatttatt	tttaaacac	gacaaagaaa	tacagatata	tcttaaaaaa	aaaaaagcat	21240
tttgtatttaa	agaatttaaat	tctgatctca	aagctcctct	tggtttctcc	ttctccattg	21300
aatccttgct	ctagacttcc	tcccgcctcc	tttccctctt	cctctgggga	acatggcatt	21360
tgtcttgggt	ctgggaaagg	tacgtctaata	gtgtaggata	tggggtgacc	caccttggtg	21420
tgctgggggc	aaagtccttc	catttttggt	gagctggtcc	tgggggaacc	catccatcct	21480
gtcttgatat	agaagggtggg	aagctctggg	aatgggtgga	gggggagaaa	cagcttagga	21540
gccaagggcc	cttgcaattg	gtagtgtctg	cttcaggaat	tagatgatcc	aggccctgt	21600
cccttagcca	gggaaagaac	tggccatgtc	tccaagcttg	ctgcccagga	gacaggagag	21660
agctgttttt	gtctgtgggg	gtcttggttg	ctgcaacagg	ctgggagtgg	gagggggatg	21720
ctgctggagg	gctgtgactc	caggggtgta	cttaatttta	catagtttta	caccctggag	21780
ttccttgagc	ctctggaaga	tggaccata	ggtttggtca	ccactgatgg	gacactccct	21840
gccccagctt	gccataagct	cttctctcac	gtcctgtctc	tgggtaagg	ggcacctatc	21900
caggtctttg	acactgaagg	gcagtgtctc	caaattcact	tcctctagcc	tctcatttat	21960
tcttgcaaac	catagatatg	gcttgaaata	atattgagcc	agtcattgtg	ctgctatgaa	22020
taagacacaa	ttccaccctt	caaggatctg	gtgaggatgg	gtgggtgggg	agacccaaaa	22080
ctataaatcc	atgagcagaa	aaatacataa	aatgtgtctg	gggcatctga	tctagcttgg	22140
gagtgggagt	tgtattgggg	gtggtggctg	gggggtgggt	tcttatgaca	ttatctctag	22200
gctgccactt	aaagtatggt	ttgaagacag	ggagaacggg	gcggcggagt	gaaagggttg	22260
aggacatccc	aggcagaagg	gatagtgtga	gcaaggcatg	aagggtggac	ttgggcaggg	22320
gcagggagtg	ggtgggcagg	gtggaggctg	gagacacggg	caagggttag	ctccaagggg	22380
gcctgcagca	ccatgccaa	agcctagggc	ctgtcaggga	tgagcagcag	ccgaggggtt	22440
ttaaacactg	agcggctcag	tcagatagac	ttttccatag	gtgcctggca	acagtatggg	22500
aggcagagag	gccggtagag	gctgttgttg	tcttccagga	ggaattgtgc	tgggtggtgg	22560
gaagcacctt	tgggtgactg	cagtgcgggc	cattgcaagg	tctcagcctc	aggcagcttt	22620
tgggtctagta	agtgtctcct	tcccaatcac	tgaccacgtg	ccgacccta	cattgggttaa	22680
cactgaatct	gcacagcagc	cctgggagg	aggtgctttt	tttttttttt	tttttttttt	22740
gagatggagt	cttgctctgt	caccaggt	ggagtacaat	ggtgcgatct	cgggtcactg	22800
caacctccgc	ctcccagggt	caagggtatt	tccctcctca	gcctcccag	tagctgggat	22860
tacaggcacg	caccatcatg	cccgactaat	ttttgtgttt	tcgtagagac	ggggtttcac	22920
catgttggcc	aggctggcct	caaacccttg	acctcagggt	atctgcccgc	cttggcctcc	22980
caaagtgtctg	gcattacaga	tgtgagccac	cgcgcccggc	aggtaggggc	ttttttcatc	23040
ccatctggat	ttttgctgga	gcctttaaat	tggccgcctg	gcttctcctc	tggccttcct	23100
ttagttgaat	ctcacacac	tgccagagt	agcctgttaa	aatgtgagtt	aagttttggc	23160

accttttgac tcaaaacctt ccagagatag ttttactcgg agaaaaaccc aaatggcctt	23220
aaaaggcctg caccatttgg gctgcctccc tgactactca atgacttcgg gc	23272

<210> 2
 <211> 14758
 <212> DNA
 <213> Mus musculus

<400> 2	
cgggattgca cggaaccttt tcgtccaact tctgggctct tctcgctccg tagtagccgt	60
ggtctgcgcc gcaggagaca aaccgatcgg agctgggaga agtgctagct cgggcctgga	120
gaagccgggg cccgagaaga gaggggagga agagaaggaa gaggagaggg ggccgcagt	180
ggcgctcggc tctcaggagc cgagctcatg gacgggtgag gcggccgtgt gcgcagacag	240
tgctccagcc gcgcgcgcgc cccaggcccc ggcccgggcc tcggttccag aaggagaggg	300
agcccgccaa ggcgcgcaag agagcgggct gcctcgcagt ccgagccgga gagggagcgc	360
gagccgcgcc ggccccggac gggcctccga aaccatgaac tttctgctct cttgggtgca	420
ctggaccctg gctttactgc tgtacctcca ccatgccaaag gtaagcggtc gtgccgtct	480
gctgtcgccg ggccgtggcg agcgctctc ccgcttgggg acgtgcgtgc gtgcgagcgc	540
gcgcgtgggg ggcttcgtgc cccacgcggg tccttgggca ccgggcgcga ggcgtcccc	600
tctgtcgtcg tacgtggagg gggagggggg gcgcgctagg tgggagggcg ccaggatcgt	660
ctcgccgccc acgcgggccc tgcccaccca ccagagtcac cgcacgtacg atctgggccg	720
agcagcggag ggccgggagcc agaggaggag gctgaggggg ctgggcttgt gccgaggctg	780
gcggcagaag tttgtccgg gtcgcgggtc cccggagAAC tggaaagtcg ggcaaagggg	840
gcgggagtcc ggagcccagc gggcatgcct gggggtgctc ggaccttga cccggggagg	900
gcagagatcg tggagggggc agggcgcggg cgaccgagg ggctttgctg tctactgccgt	960
ttgggtctct gaggcccttg cagtgaagtt ggggaaagt ttaggatgga ttgctgcggg	1020
gacctctctc caccgtctta gcttggtggg ccacctgcac cgcgccaccc cctcccgctc	1080
ccgctcgcgt cccgcgcggg gcccgcctc cccgcctgg ccgggcgcgc gcggcgcaga	1140
gccgattaca tcagcccggg cctggccggc ctcgtgttcc cgagaccgcg gctgccggag	1200
cccggagacc cgggcgacga gcggcgcccc tccccccacc ggccctccgc gaggaaggtg	1260
acctctggag gtatccccag ctccgggacc cggagaaact cccatacctc tttcctccgt	1320
tcccaacttc taccctgtgc tcgcgctagg aagaatttcc cgacgcccct tcccccttt	1380
ccccatttcc tgcctggtgt aaaaagagaa gcccttccca cccttttata ttttccttt	1440
ctttgcgaag actcatcgga cttttcctgg acccagggtc caggaaaagg acggtgactg	1500
tcaggcgtgg ggggtgctgag gccacacctc gggttctttg tggaaacgct gacctaaagt	1560
ttgagttggt gaaggtgtgc tccctcctcc cctcacagct gtgcttcagg ttttttttt	1620
tttttgctgg gggggggggtg gatcaacgaa ggggtgactg acatcacccc atttcccacc	1680

cccaccccc	ctttggaac	atgacttgat	atttgctctg	acaggggcag	cctggaacca	1740
gccctttccc	atacctttgg	caggatccct	tgtcagtcag	tatctctcac	acactttgtc	1800
ctggcaaagc	ccgatgcca	gagagcaggt	ggtttaactg	cgaacttgcc	cacccaactt	1860
gcctaccaa	gggtcctttc	atgcttattt	ccacgaagct	tcagttgtag	agccttcttg	1920
gaaaggaggc	agaaggaagg	agaagggcag	gtgtccctgc	caccatccag	agttccccag	1980
accctggcac	aaaggccttg	gttctgggccc	tccatgtggg	gaggaggata	ggagtgcctg	2040
gccacagtgt	gaccttcaga	ggcccccaga	gaaggacacc	tggccagtcc	ctgccttaga	2100
acctcccat	ctgggaaggg	gttcaaagtt	tctgttccct	ttctccacgg	ggggctagac	2160
agaagaataa	ggagaatgtc	atggggctat	tgagggggta	gtgagggcct	acagtgcaga	2220
atccagggcc	aacctgaggg	agctggaatg	gggaagctat	ctcttgagaa	gggtcacctc	2280
tgaccttggc	cctggtggca	agactgaggg	tccctggatg	aactgctctt	aggggacaga	2340
gacagaccaa	gggtgggagt	tggtccttct	ggggcagttg	gaggtccagg	ttggttgagg	2400
aaggtggcaa	caggagaccc	tcaggaaggc	ctgcctggaa	gccttggctt	gcttccactg	2460
tcaggcccc	aaggccttct	tggtgacctt	cacagcttct	ggggagggga	gaaaggagct	2520
ggtggggatg	aggaggggtg	gaggaccccc	tgcgggctgg	gcaataactga	ggagaaaagct	2580
tccttgggtta	ccttcgagcc	aagtgtcccag	tccaggtgag	aggcttggag	atgtggggagg	2640
gggaggctag	ccaagcttgg	gagctgcagt	caggccctgg	gcagatgggg	tgggagggaa	2700
cttggactct	cccttagggg	cttcctccca	gctaatacacc	ccttgagcaa	cctgtgggta	2760
tgccgaatat	ccccgaggcc	tggggagagt	tgggatgggg	gagggtagtt	ggtgcccttc	2820
ggtcctctgc	accctccct	cttcaacacg	agctccctgg	tatttgtcat	gtcagcagga	2880
gaaggtcacc	acgttgtttt	tctcgcccc	agtccttcct	tcctgcccc	gtccaaaattt	2940
gtcctcctat	ttgaccttaa	tacttaccca	tggctttgga	ccagggaaatc	gggggcagtg	3000
ggaaaagaga	gagggcaaga	ttggaacggg	actgggggcc	tgagtaaagc	aggattctgg	3060
tattttcctc	ctacactgtg	agctccctag	cgcttggtta	gtctttaact	tccatggggtt	3120
cagaattgac	gccgtccaga	gtagtgggta	tgctctggac	ctgcagggac	cacttacatg	3180
gtcctgaccc	tgtgtgactc	agaagcctgg	gggtgggggg	tggggaggct	gggagctggg	3240
ggttgggaga	gagagacaag	aagacatcaa	gggattcagt	ggtcaggcct	tggacgcccc	3300
gtggctgcct	ctgtccctgt	caacgggtctt	tactctttgc	tttgtcctca	gtgggtcccag	3360
gctgcacca	cgacagaagg	agagcagaag	tcccatgaag	gtgagtctca	tgctctttaa	3420
tggatccctg	ttgtctcagt	ggagtgcagg	gataagcccc	actcctcttt	ttcagatggg	3480
ggggggggtt	gggcacagga	ataggaggca	tgggtactgt	tgaacttaac	ccttgtgttt	3540
cttaagatgt	cttctgttct	gctttctgct	agaaacagga	cttgttgctt	tctctaatag	3600
gttttctagt	gaaattttat	ctggaaagct	tgctgtgagc	acagccgtgg	aggaaggaag	3660

gcggcagcgt	tcagggtttc	cagatgttct	gggagggtgtc	tcttgtaccc	ccttctctca	3720
ggggaagata	aatgttcagt	gccacttcct	acccacccat	ggcccacccg	aaggggctgt	3780
gacccttcct	gtgtgaggtg	gaggtatgag	gctggggcag	gacagaagga	tatcctaaca	3840
ggactcccca	gtcctggcct	tccagtgtgg	cagcttccat	agacagcggt	tgggtgctgt	3900
gaacttcct	gcaggaccag	cagagggccg	gctatagctc	tcagccgccc	cgccccctg	3960
cccaaccctg	agtccgcctg	ccttttggtc	cagtgtgggt	tggagtaccg	ggatcctccc	4020
atttctctgg	ggacgccctg	gctctcccca	gactgagtg	tggcctctgc	tccagccgga	4080
tgccactccc	caagtgtcct	tcctcagagt	taggaaggcc	ctggggctct	tctccaggct	4140
agtttccctg	acccaaatcc	actgtggctg	gaggaaccag	cagccaagga	aagctgggtg	4200
tgtccagccg	gttttgccct	ctcccccagg	agctctttct	ctggcccagg	gcctggctct	4260
ctgccactcc	ctggccccgg	ccactgacag	gcccctactt	ccaaagtgtc	acccaccccc	4320
ttctgcttcc	tagtgggctc	tgtgggtctg	gagaggcaag	acaaatgggtc	tttgtttgat	4380
ggagaagagc	ttgtctgcta	taaataagga	aaaccacgaa	agcccgatgc	tgaagtgtat	4440
gtgtgcacac	gcccgagcag	caggacagtg	ttctttgggg	caggggccag	gctcccgtgg	4500
gtactggcca	agtcacttcc	tccacttcct	atggaccttg	gggactctaa	gaagtttttg	4560
gaaaggattc	tcatcttagg	tctttttaca	cagagctccc	acctccattc	attgctctgt	4620
catatcgctc	ctctaactag	cctgggccac	ctctgtccca	gccatgatga	agggttagtt	4680
aaaaaaaaaa	ttctgggtta	gtcgtcttca	atatagactt	tccttgagaa	gaatttttca	4740
gatctgatct	catggacatt	tttttttttt	tggctgtgtt	ttatgttaac	cctttgaggg	4800
tagacaagag	tcctttgctt	atttgtccag	atagaaaaga	gagcccttga	gcagagtaca	4860
ggggtgggtg	cttaagttcc	ccccaccctt	ttccctgttt	gacatctgtg	gccattgctc	4920
catcttttct	tctgtgcccc	cgtttctcac	cagacaacct	atcatacacc	tggcttccat	4980
cttctttacc	tttctggaaa	caaacaacaa	aacaaacaaa	caaaccaaac	tttgaagagt	5040
aaagggaggt	ttggctgtgt	cctcagggtg	ggaggggtgg	ggtgtgtagt	ctccggagca	5100
tgcacttaaa	atgccttttg	tgacattcca	aactttgtga	cctggaatga	gaaaagaaga	5160
gctgttttca	gggccagcaa	agagtcagag	cgccaccacc	ttcctgctcc	ctgaagtgtc	5220
tttagaggtc	aggctaacct	gcttctaccg	atagaggcct	ggagactgga	gggacaggcc	5280
caaggtcatt	ccaactgcta	acagaacttg	ggccccctgt	tgggcctgtg	gtccttttct	5340
cacttcatgg	acaggcttcg	gtgggggtgt	acaaaaactg	gcaggctgag	ccaccatttg	5400
gtgttccaaa	gaagtcctgt	actctctagt	ttccgcccc	tggccctcaa	gtacaccttc	5460
ctgtctcatg	tacctcagaa	tctgacaggg	aaatgggtctc	tcctgtcgtc	ttctagatca	5520
gcttctaaaa	atgcgtcgta	cggaggcagc	tcctgctctt	tccatgatgc	aaacagtttg	5580
ccctcttggg	cggggttctt	agtgtgcca	ggacctgcat	tggttgggtg	gcctgcccac	5640

tgccacctgc	tgatttgtct	tgggcagaag	tctggggagg	gggggactgg	caggtgtctc	5700
tcgaagcttc	tgtgtctgtg	catgatatca	gtgtcagaag	gcatagccaa	catagctcct	5760
tctaactagt	tcttactagt	attgtggcct	ctgggatgaa	tggtggtggt	tctctgagtc	5820
tctagatctc	catttataaa	atgggttcct	ggttgtgctt	agtgggaaca	tggggaagag	5880
tgtatataca	tagctgtccc	cgggtgtccag	tgtgtatttg	atgagtggct	gttggcctgg	5940
ttggtggtct	ggccataaag	cagaaagcag	gtgtaccacg	actcaggctg	tcatctggag	6000
ccatagttgg	taggaacttg	ctgtgacaat	gaggaatgga	gttagatgcg	gcagggccac	6060
ctccccctga	tctggacctt	gaaatgaggg	agggacttca	ctttgagctt	tagaaacact	6120
tgtttggtgt	ggagctgtaa	ggagtgggtct	cacaaatctg	ggtggcgata	gaggctgacc	6180
atcctgcctg	gtgtccctcc	cacacagtga	tcaagttcat	ggatgtctac	cagcgaagct	6240
actgccgtcc	gattgagacc	ctggtggaca	tcttccagga	gtaccccgac	gagatagagt	6300
acatcttcaa	gccgtcctgt	gtgccgctga	tgcgctgtgc	aggctgctgt	aacgatgaag	6360
ccctggagtg	cgtgcccacg	tcagagagca	acatcaccat	gcagggtgggc	acctgcggca	6420
caggggacgg	ggcgggggca	gggggggag	gaggacagtg	gtacaaggag	gggcattaga	6480
aggttgtctg	ggcctctgcc	tgggaaactt	ttggtaggag	gagctaaatt	ggggttgagg	6540
gtgagaagac	gaggctgggg	cttctttgct	acctttggga	agaagatgtc	tgctctgcgc	6600
tctgtacttc	cctgccgaag	ctctccacga	tttgaccatc	tgctttcgtg	acctttgctc	6660
cctgggctcg	acaggggggc	cgctgcctgc	aacaagtgtt	cttctctttc	tctgggagaa	6720
cccaaagtct	cccccaatcc	tactcagagg	gttctatttg	ggaagctgga	cgggaggggac	6780
tggtctatgc	agagttaaaa	gccagtcttg	aggtgctgtt	gcctagtggg	tggatctggg	6840
cccagacggg	gtggagagtg	ggaggaagct	cagcaacagg	ctggatgggt	agctcttagg	6900
tagcatttag	ggggtcaggg	tgaagcttgg	gaggggtgca	ggaggggaag	ggatgggggt	6960
ggtaagaatc	caggacctga	attcccagcc	tggccaaccc	ttgcagctgt	ctgctctcaa	7020
gaggagcaag	agccccttga	ggccagcagg	gttgggggag	ttggagtgac	ctgaggttct	7080
tttctgttag	agccctgggt	ctcctatctc	caccacctat	ccctgctcag	tagaaccctt	7140
gggtgctaaa	tggcaggagc	cccgggggtg	cccatagggg	tatggctggc	tgggtcacta	7200
accactgtga	tctgtctcct	ccctctacag	atcatgcgga	tcaaacctca	ccaaagccag	7260
cacataggag	agatgagctt	cctacagcac	agcagatgtg	aatgcagggt	aggccagagc	7320
ttcacactca	ggtggcacac	agctgatgcc	tggctgcaga	gctgagcgtg	ttacatgtgt	7380
tagtgtgggt	ccaccttcca	gctagctgtg	tgagcttctg	tgggtgggtg	tgggtgatgga	7440
ccccagtgtg	ctgctgtttc	ccgtctcttg	aatatgggca	caacaattca	gtgtgccctt	7500
ccacggcatt	atagggcccc	atgttgttgt	tatgcaaaaa	gattaagaga	gcattgctaa	7560
atcagaaacg	tcgtgtaaaa	ttattaccaa	attgttgtta	tcatcaccct	aactcctctg	7620

tgtcttgttt	tctcctcctt	tctctaccca	ctgcagacca	aagaaagaca	gaacaaagcc	7680
agaaaagtaa	gtggccacgt	gctagcattt	ctttccaatt	gtctctgttc	agggcttctt	7740
gcttcctctc	ttgggtgctc	tgttggcctc	agtggcattg	gttgggtggg	tagtatggtg	7800
accgaagtgg	gctggagtca	gctttaagct	tatggctcta	gagcgatgaa	gtaaaccag	7860
cctgaagaag	aggctgcctt	tcagggctca	ggtcctctcc	ggccagcact	cagcgttgtg	7920
gtggagtgtg	ctatgaacac	tagcgtccac	agcagagtgc	aggagagcga	gtgggtgcca	7980
cagggcagtt	tctgtgtatc	aggggatgga	cgtagcctgg	gccttggtgg	gtggtgactg	8040
tggccatcca	ggtttttttag	gtcccaggag	atttcttggg	tgtgtgtgta	tgcctttccg	8100
tagggctgtg	gcaggtagca	gaccagctc	tcttagtgag	ggaagaaaag	tggagtggta	8160
gtcattttct	gaggcttcct	gttgatggcc	ggggaaggct	agtttaggac	gggaggggtg	8220
ctgacattgc	tggggtctaa	acgtgcagtg	aaggagcgac	tgagagagag	cacccccatc	8280
ctttcccca	acccacccc	acgcccctt	ctgtctgccc	taccatttgg	tggatgtgaa	8340
gtcctcatgc	cttcccctaa	gccccaggt	tccacgacta	ctgtatctac	tagagcaatg	8400
gtcctggagt	ttatcagtga	gagagagcag	ggcaggctcc	aggcgagtgg	ccctgtgtgg	8460
agagctttct	ccttctatgc	ttgcagtgct	ttctcccaag	caggacagac	ctgccttctt	8520
ctccccaggt	cccttcttcc	tgtctcgctt	tccccgtgat	agacaggctg	ccatatcttt	8580
tctgggactt	ggcaggccta	gagagtgtcg	gttccctgga	gggtggcaag	ctgtagcttg	8640
tccctcccag	ctgttcccta	gatgtctgct	ttgcccatag	gaagagtggg	agggctcgcc	8700
cgagctcgga	agagagtcta	gctgcaggct	ttggcttcta	gaaaaaagag	cctctggccc	8760
cctaatacaca	caccataact	acactgttcc	tcttcccctg	gccccacat	cagtgtctggg	8820
ctctgatgac	agccactccc	actgcctatc	ctagatgact	gctccataac	tggtgcccca	8880
tctcctgccc	tggcttatat	gccatcgctc	aagcaactgc	cccttcccac	caaggatgct	8940
atgaggcagg	gtctccagag	ggactcctac	tctcacactt	ggaagtcaag	gcagatagtc	9000
tgaagcacag	cccacttcta	accctttctc	attaaagtct	gccttagaca	gtctattgcc	9060
tcctgacctt	cagggctctaa	ccgttggtgg	ttgcccttat	ggctttgctg	cctgcctgag	9120
accagggacc	acatgaagcc	tagaagctgt	gcctttcaca	gtttctgcta	atcactcaaa	9180
gccctgccta	gggctgggat	taccacccta	ctgtgggcaa	agtgaggagg	aagggtcacg	9240
ctgtctctgc	tcacccgtga	ctgaggtttg	acctagaggc	tgctccagga	agtgactagg	9300
gtagttttgg	gtctcctgct	cctgcctctg	tcttcttcat	tgctcctctc	ttctcttccc	9360
tctcgttctc	ttcctgtctg	tttctgtttt	tatatcttcc	agaaaatcag	ttcgaggaaa	9420
gggaaagggt	caaaaacgaa	agcgcaagaa	atcccgggtt	aaatcctgga	gcgtgtacgt	9480
tgggtgccgt	gctgtctaat	tccttgagac	cttcctgggt	tccagacaat	cgctgcagc	9540
tcctctaacc	ctgcccaccc	caccctgcc	ccaccctac	ctcccctctg	gctcttgccc	9600

tgccctcagtc	tctctctctc	tcactcaccc	cactaatggc	accaatgggt	agacttggtg	9660
gtggcattgt	tggcccaggg	ttgggttggg	gtgggtggaa	ggtgagtaga	tacggaacac	9720
tcaactcagg	gaggggactc	tggcttggct	gggcaccgac	tttctctcac	ccactgggca	9780
ttggtggcgg	ggccgttggt	ggcatgggca	ctgggcatca	gggccctctc	atccaactgg	9840
tttccactgc	tctagactct	tgcacatgtc	tggagggtag	gggtggtgtg	gagggcaacg	9900
tggaatgagt	tgaggggtct	gttgggtggga	agtggactgt	ggtgggctga	agttggagct	9960
tgagcgggct	gtgcggtagc	ccgtcctcgt	ctgttggaag	tgctttgacc	cctgggtttg	10020
aggctccagg	atgggaaagc	cctccctatc	cagcccaaca	gaaatcaccc	acagaggtct	10080
cctacggttg	cctcttcctc	tgcttatagg	ctgttggtgg	ctctggaggc	ctggctgggtg	10140
gacagtgcc	ctggacttgg	attaccttct	gctggccctc	tcccttggtg	gaggggtctg	10200
gcagaggccc	ttttccaggg	agaaggtacc	ctggtggtct	cctgggtcac	ttatcactgt	10260
ccccagcagg	tgaagagtca	aggtgtgttg	tgggcacagc	agttgtgggg	gccctgtggc	10320
cccagatagg	cccatgtctt	cgtggggcac	agcactgtcc	ctcatggaag	cttacctctc	10380
ccctgcactc	tgccctgcctg	tgccctcctc	ttcctgcagg	cacatgtcct	gccagcgctg	10440
cgtctctttg	ccactctctc	tgtcttctgc	tagagtgtct	ggatctttcc	agaatgtgga	10500
aagggcctag	gggccgacga	gctgggtggg	gaagccgtgg	tggacacatt	aggggggtgt	10560
gcatgggact	ctctctctct	ctctgtctgac	tctctagctt	agatgtcttt	ccttttgcct	10620
ttttgcagtc	actgtgagcc	ttgttcagag	cggagaaaagc	atgtgtttgt	ccaagatccg	10680
cagacgtgta	aatgttccctg	caaaaacaca	gactcgcgtt	gcaaggcgag	gcagcttgag	10740
ttaaacgaac	gtacttgacg	gttgggtctcc	agagggcaag	caagagtcag	agaggggcat	10800
cacagacacg	ggagagagag	agagggaaaa	agagagagac	agagagagca	cacttggtgag	10860
gggccaactg	cttgctcggc	ttctagctgc	ctgcgtgggtg	actgctacct	tctctcctgc	10920
tggggctctg	tggggcctcg	ggctccagtc	tggcccagca	ggcctgctct	gagatggccc	10980
tgggttgcttg	agtgggtagg	ctgctgtgac	ttaatgtgac	ggtgtggacg	caagttgtgt	11040
gttggtatcct	gtgggtcctgc	tgcttatgga	ggctgttggt	gttgatgttg	ttaatcttat	11100
cattggtgca	agtgttaaaa	cctccttcca	ggcgtggagt	gatgtcta	agtgttctct	11160
ggctgcacct	ttgccccccc	ggagaaccag	cacagctgag	cctctcacca	ctcagtatat	11220
tttccctggg	cttgaaggct	tagctcctgt	tgtctattcc	cttaagatta	tggcttcttg	11280
aagacaggct	gtctccctca	gactggagct	ctgtaaggac	aggccatgtg	cacctcagac	11340
tggagtccac	cttagactgg	gcttcctgaa	agaggcaggg	atctgctgtt	ggtttgggct	11400
aggaaatttt	ttctacatac	atccgaggac	actacatagc	ttatccctca	tcagtcaagg	11460
caagtgtgac	aaccctgacc	agcccacaca	tttcaaaatg	cttccaatga	gtttcaggaa	11520
aagagtcaga	tccattcttc	ctgacgggac	tccatgagta	cctgaagcct	gggtcataaa	11580

ctgttgggat	gcccaggtat	ctgtactcct	gttttttgtc	catgtggacc	taggaagtgt	11640
caatctcacg	agtaaaatat	tgtatatggc	cacaccact	ggggagctca	agagcacagg	11700
gctgttgact	ggcagtccca	gggtggttta	taccggtgtg	gcctgtccca	aggatgacca	11760
tcaccgaggg	agggaaagct	tttacgggct	ggccaacaaa	gggccagcct	tccttccagg	11820
cagtgaagg	gttctctggc	atgggccttg	ttccccgcct	gcattcttgt	gtcctgtggg	11880
ttcaaaagac	accagaggcc	tggcgggtct	ctctctctct	gtggtccttg	gtatgaagtt	11940
gtttctgaga	ggctgtatga	gaacaatgta	tctgttagtg	ctgtgtaggg	actcttccca	12000
acaacagggc	tgggtgaagg	ggctcagttc	actggagggg	tttaaggaag	ataaagacct	12060
tggatttcta	gggtttcttg	agtgaagtgg	gagctaaatg	aagtcacctg	acttccagag	12120
acccgactca	gtccgctact	gccctgtgtc	tgggaaccca	agacgagggt	aggacccgtg	12180
tttccagcct	gtcctcaggg	ccaccagcca	gggtcaggag	caagaggaga	acatcttttg	12240
agattccttc	tgcttcaaca	ggaggaacaa	agccactggg	ttgtctgtcc	tctgcctaag	12300
tcagacatca	tcgtgtggta	aaaggcaggt	gtagccaccg	ggcagttcaa	ggtagaagct	12360
gaggatgaga	gaggtctagg	tagcatagat	gttctcctac	ttttcaggaa	ctcccgagtc	12420
ctcccttggg	cagaacacat	cccaaagca	ggcagtcctc	tgtcactggc	ttagctcaag	12480
gtagttttcc	agccccgaaa	cctagcccta	gagccaggac	tgaagatcct	cctgcagagc	12540
ttctctccca	gctaagtaca	tctcaccctg	tcaccacgt	gccgtggagt	gtcacatggg	12600
ggctgtcctt	tggtaaccac	tcctttgttg	cttttgtgag	cattttattcc	catgtctgtc	12660
ttgtcttcca	tggtttgcca	tctttagaag	gcagggcttg	gtctctctct	ctctccaccg	12720
ggactctgtc	tcaccgcac	ctttgggaac	tctgtcctca	tggtgccaac	ctccggggac	12780
ccgtgggctc	ccaggcctgg	ggaggctgct	tgccttcact	gccaggctcc	cgtggcccta	12840
accccctgcc	tctctttgcc	atttcccata	gatgtgacaa	gccaaggcgg	tgagccaggc	12900
tgcaggaagg	agcctccctc	agggtttcgg	gaaccagacc	tctcaccgga	aagaccgatt	12960
aaccatgtca	ccaccacgcc	atcatcgtca	ccgttgacag	aacagtcctt	aatccagaaa	13020
gcctgacatg	aaggaagagg	agactcttcg	aggagcactt	tgggtccgga	gggcgagact	13080
ccggcagacg	cattcccggg	caggtgacca	agcacggtcc	ctcgtgggac	tggattcgcc	13140
attttcttat	atctgctgct	aaatcgccaa	gcccggaaga	ttagggttgt	ttctgggatt	13200
cctgtagaca	caccaccca	catacacaca	tatatatata	ttatatatat	aaataaatat	13260
atatgtttta	tatataaaat	atatatatat	tctttttttt	aaattaactc	tgctaattgt	13320
attggtgtct	tactggata	tgtttgactg	ctgtggactt	gtgttgggag	gaggatgtcc	13380
tcactcggat	gccgacacgg	gagacaatgg	gatgaaaggc	ttcagtgtgg	tctgagagag	13440
gccgaagtcc	ttttgcctgc	cggggagcaa	gcaaggccag	ggcacggggg	cacattggct	13500
cacttccaga	aacacgacaa	acccattcct	ggccctgagt	caagaggaca	gagagacaga	13560

tgatgacaga gaaagagata aagatgccgg ttccaaccag aagtttgggg agcctcagga	13620
catggcatgc tttgtggatc cccatgatag tctacaaaag caccgccc ctctgggcac	13680
tgcctggaag aatcgggagc ctggccagcc ttcagctcgc tcctccactt ctgaggggcc	13740
taggaggcct cccacaggtg tcccggcaag agaagacacg gtggtggaag aagaggcctg	13800
gtaatggccc ctctctctgg gaccccttcg tcctctcctt accccacctc ctgggtacag	13860
cccaggagga ccttgtgtga tcagaccatt gaaaccacta attctgtccc caggagactt	13920
ggctgtgtgt gtgagtggct tacccttcct catcttcctt tccaaggca cagagcaatg	13980
gggcaggacc cgcaagcccc tcacggaggc agagaaaaga gaaagtgttt tatatacggc	14040
acttatttaa tagccctttt taattagaaa ttaaaacagt taatttaatt aaagagtagg	14100
gtttttttca gtattcttgg ttaatatatta atttcaacta tttatgagat gtatctctcg	14160
ctctctctta tttgtacttg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg	14220
tgtatgaaat ctgtgtttcc aatctctctc tcccagatcg gtgacagtca ctagcttgtc	14280
ctgagaagat atttaatttt gctaacactc agctctgccc tcccttgtcc ccaccacaca	14340
ttcctttgaa ataaggtttc aatatacatt tacatactat atatataatt ggcaacttgt	14400
gtttgtatat aaatatatat atatatatat atgtttatgt atatatgtga ttctgataaa	14460
atagacattg ctattctgtt ttttatatgt aaaaacaaaa caagaaaaat agagaattct	14520
acatactaaa tctctctcct tttttaattt taatatttgt tatcatttat ttattggtgc	14580
tactgtttat ccgtaataat tgtgggggaa aaagatatta acatcacgtc tttgtctcta	14640
gagcagtttt ccgagatatt ccgtagtaca tatttatatt taaacagcaa caaagaaata	14700
cagatatatc ttaaaaaaaaa aagcattttg tattaaagaa ttgaattctg atctcaaa	14758

<210> 3
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 3

Met	Asn	Phe	Leu	Leu	Ser	Trp	Val	His	Trp	Ser	Leu	Ala	Leu	Leu
1			5						10				15	

Tyr	Leu	His	His	Ala	Lys	Trp	Ser	Gln	Ala	Ala	Pro	Met	Ala	Glu	Gly
			20					25					30		

Gly	Gly	Gln	Asn	His	His	Glu	Val	Val	Lys	Phe	Met	Asp	Val	Tyr	Gln
		35					40					45			

Arg	Ser	Tyr	Cys	His	Pro	Ile	Glu	Thr	Leu	Val	Asp	Ile	Phe	Gln	Glu
	50					55					60				

Tyr	Pro	Asp	Glu	Ile	Glu	Tyr	Ile	Phe	Lys	Pro	Ser	Cys	Val	Pro	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

65	70								75					80			
Met	Arg	Cys	Gly	Gly ₈₅	Cys	Cys	Asn	Asp	Glu ₉₀	Gly	Leu	Glu	Cys	Val ₉₅	Pro		
Thr	Glu	Glu	Ser ₁₀₀	Asn	Ile	Thr	Met	Gln ₁₀₅	Ile	Met	Arg	Ile	Lys ₁₁₀	Pro	His		
Gln	Gly	Gln ₁₁₅	His	Ile	Gly	Glu	Met ₁₂₀	Ser	Phe	Leu	Gln	His ₁₂₅	Asn	Lys	Cys		
Glu	Cys ₁₃₀	Arg	Pro	Lys	Lys	Asp ₁₃₅	Arg	Ala	Arg	Gln	Glu ₁₄₀	Asn	Pro	Cys	Gly		
Pro ₁₄₅	Cys	Ser	Glu	Arg	Arg ₁₅₀	Lys	His	Leu	Phe	Val ₁₅₅	Gln	Asp	Pro	Gln	Thr ₁₆₀		
Cys	Lys	Cys	Ser	Cys ₁₆₅	Lys	Asn	Thr	Asp	Ser ₁₇₀	Arg	Cys	Lys	Ala	Arg ₁₇₅	Gln		
Leu	Glu	Leu	Asn ₁₈₀	Glu	Arg	Thr	Cys	Arg ₁₈₅	Cys	Asp	Lys	Pro	Arg ₁₉₀	Arg			

<400>	4						
ggcttggggc	agccgggtag	ctcggaggtc	gtggcgctgg	gggctagcac	cagcgctctg		60
tcgggaggcg	cagcggttag	gtggaccggt	cagcggactc	accggccagg	gcgctcggtg		120
ctggaatttg	atattcattg	atccgggttt	tatccctctt	cttttttctt	aaacattttt		180
ttttaaaact	gtattgtttc	tcgttttaat	ttatttttgc	ttgccattcc	ccacttgaat		240
cgggccgacg	gcttggggag	attgctctac	ttccccaat	cactgtggat	tttggaaacc		300
agcagaaaga	ggaaagaggt	agcaagagct	ccagagagaa	gtcgaggaag	agagagacgg		360
ggtcagagag	agcgcgcggg	cgtgcgagca	gcgaaagcga	caggggcaaa	gtgagtgacc		420
tgcttttggg	ggtgaccgcc	ggagcgcggc	gtgagccctc	ccccttggga	tcccgagct		480
gaccagtcgc	gctgacggac	agacagacag	acaccgcccc	cagccccagc	taccacctcc		540
tccccggccg	gcggcggaaca	gtggacgcgg	cggcgagccg	cgggcagggg	ccggagcccc		600
cgcccgagg	cggggtggag	ggggtcgggg	ctcgcggcgt	cgactgaaa	cttttcgtcc		660
aacttctggg	ctgttctcgc	ttcggaggag	ccgtggtccg	cgcgggggaa	gccgagccga		720
gcggagccgc	gagaagtgct	agctcgggcc	gggaggagcc	gcagccggag	gagggggagg		780
aggaagaaga	gaaggaagag	gagagggggc	cgcagtggcg	actcggcgct	cggaagccgg		840
gctcatggac	gggtgagggc	gcggtgtgcg	cagacaqtgc	tccagccgcg	cgcgctcccc		900

aggccctggc	ccgggcctcg	ggccggggag	gaagagtagc	tcgccgaggc	gccgaggaga	960
gcggggccgcc	ccacagcccc	agccggagag	ggagcgcgag	ccgcgccggc	cccggtcggg	1020
cctccgaaac	catgaacttt	ctgctgtctt	gggtgcattg	gagccttgcc	ttgctgtctt	1080
acctccacca	tgccaagtgg	tcccaggctg	cacccatggc	agaaggagga	gggcagaatc	1140
atcacgaagt	ggtgaagttc	atggatgtct	atcagcgag	ctactgccat	ccaatcgaga	1200
ccctggtgga	catcttccag	gagtaccctg	atgagatcga	gtacatcttc	aagccatcct	1260
gtgtgcccc	gatgcgatgc	gggggctgct	gcaatgacga	gggcctggag	tgtgtgcca	1320
ctgaggagtc	caacatcacc	atgcagatta	tgcggatcaa	acctcaccaa	ggccagcaca	1380
taggagagat	gagcttccta	cagcacaaca	aatgtgaatg	cagaccaaag	aaagatagag	1440
caagacaaga	aaatccctgt	gggccttgct	cagagcggag	aaagcatttg	tttgtacaag	1500
atccgcagac	gtgtaaatgt	tcctgcaaaa	acacagactc	gcgttgcaag	gcgaggcagc	1560
ttgagttaaa	cgaacgtact	tgcagatgtg	acaagccgag	gcggtgagcc	gggcaggagg	1620
aaggagcctc	cctcagggtt	tcgggaacca	gatctctcac	caggaaagac	tgatacagaa	1680
cgatcgatac	agaaaccacg	ctgccgccac	cacaccatca	ccatcgacag	aacagtcctt	1740
aatccagaaa	cctgaaatga	aggaagagga	gactctgcgc	agagcacttt	gggtccggag	1800
ggcgagactc	cggcggaagc	attcccgggc	gggtgaccca	gcacggtccc	tcttggaatt	1860
ggattcgcca	ttttatTTTT	cttgctgcta	aatcaccgag	cccggaagat	tagagagttt	1920
tatttctggg	attcctgtag	acacaccac	ccacatacat	acatttatat	atatatatat	1980
tatatatata	taaaaataaa	tatctctatt	ttatatatat	aaaatatata	tattcttttt	2040
ttaaattaac	agtgctaatt	ttattggtgt	cttactgga	tgtatttgac	tgctgtggac	2100
ttgagttggg	aggggaatgt	tcccactcag	atcctgacag	ggaagaggag	gagatgagag	2160
actctggcat	gatctttttt	ttgtccact	tggtggggcc	agggtcctct	cccctgcca	2220
ggaatgtgca	aggccagggc	atgggggcaa	atatgaccca	gttttgggaa	caccgacaaa	2280
cccagccctg	gcgctgagcc	tctctacccc	aggtcagacg	gacagaaaga	cagatcacag	2340
gtacagggat	gaggacaccg	gctctgacca	ggagtttggg	gagcttcagg	acattgctgt	2400
gctttgggga	ttccctccac	atgctgcacg	cgcatctcgc	ccccaggggc	actgcctgga	2460
agattcagga	gcctgggagg	ccttcgctta	ctctcacctg	cttctgagtt	gcccaggaga	2520
ccactggcag	atgtcccggc	gaagagaaga	gacacattgt	tggaagaagc	agcccatgac	2580
agctccccct	cctgggactc	gccctcatcc	tcttcctgct	ccccctcctg	gggtgcagcc	2640
taaaaggacc	tatgtcctca	caccattgaa	accactagtt	ctgtcccccc	aggagacctg	2700
gttgtgtgtg	tgtgagtgg	tgaccttcct	ccatccccctg	gtccttcctt	tcccttccc	2760
aggcacagag	agacagggca	ggatccacgt	gcccattgtg	gaggcagaga	aaagagaaa	2820
tgttttatat	acgggtactta	tttaatatcc	ctttttaatt	agaaattaaa	acagttaatt	2880

taattaaaga gtagggtttt ttttcagtat tcttggttaa tatttaattt caactattta	2940
tgagatgtat cttttgctct ctcttgctct cttatttgta ccggtttttg tatataaaat	3000
tcatgtttcc aatctctctc tccctgatcg gtgacagtca ctagcttatc ttgaacagat	3060
atttaatttt gctaacactc agctctgccc tccccgatcc cctggctccc cagcacacat	3120
tcctttgaaa taaggtttca atatacatct acatactata tatatatattg gcaacttgta	3180
tttggtgtgta tatatatata tatatgttta tgtatatatg tgattctgat aaaatagaca	3240
ttgctattct gttttttata tgtaaaaaca aaacaagaaa aaatagagaa ttctacatac	3300
taaatctctc tcctttttta attttaatat ttgttatcat ttatttattg gtgctactgt	3360
ttatccgtaa taattgtggg gaaaagatat taacatcacg tctttgtctc tagtgcagtt	3420
tttcgagata ttccgtagta catattttatt tttaaacaac gacaaagaaa tacagatata	3480
tcttaaaaaa aaaaaagcat ttgtatttaa agaatttaat tctgatctca aaaaaaaaaa	3540
aa	3542

<210> 5
 <211> 190
 <212> PRT
 <213> Mus musculus

<400> 5

Met Asn Phe Leu Leu Ser Trp Val His Trp Thr Leu Ala Leu Leu Leu
 1 5 10 15

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

Glu Gln Lys Ser His Glu Val Ile Lys Phe Met Asp Val Tyr Gln Arg
 35 40 45

Ser Tyr Cys Arg Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu Tyr
 50 55 60

Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu Met
 65 70 75 80

Arg Cys Ala Gly Cys Cys Asn Asp Glu Ala Leu Glu Cys Val Pro Thr
 85 90 95

Ser Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His Gln
 100 105 110

Ser Gln His Ile Gly Glu Met Ser Phe Leu Gln His Ser Arg Cys Glu
 115 120 125

Cys Arg Pro Lys Lys Asp Arg Thr Lys Pro Glu Asn His Cys Glu Pro

130		135		140
Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln Thr Cys				
145		150		155
				160
Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Gln Leu				
		165		170
				175
Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg				
		180		185
				190

<210> 6
 <211> 3475
 <212> DNA
 <213> Mus musculus

<400> 6	
agcgcagagg cttggggcag ccgagctgca gcgaggccgc ggcaactgggg gcgagctgag	60
cggcggcagc ggagctctgt cgcgagacgc agcgacaagg cagactattc agcggactca	120
ccagcccggg agtctgtgct ctgggatttg atattcaaac ctcttaattt ttttttctta	180
aactgtattg ttttacgctt taatttatct ttgcttccta ttcccctctt aaatcgtgcc	240
aacggtttga ggaggttggg tcttcactcc ctcaaatacac ttcggaattgt ggaaatcagc	300
agacgaaaga ggtatcaaga gctccagaga gaagtcaagg aagagagaga gagaccgggc	360
agagagagcg cgctggcgag cgaacagaga gagggacagg ggcaaagtga ctgacctgct	420
tttgggggtg accgccagag cgcggcgtga gccctcccc ttgggatctt gcatcggacc	480
agtcgcgctg acggacagac agacagacac cgccccagc ccagcgccc acctcctcgc	540
cggcgggctg ccgacggtgg acgcggcggc gagccgcgag gaaccgaagc ccgcgcccgg	600
aggcgggggtg gaggggggtcg gggctcgcgg gattgcacgg aaacttttcg tccaacttct	660
gggctcttct cgctccgtag tagccgtggg ctgcgccgca ggagacaaac cgatcggagc	720
tgggagaagt gctagctcgg gcctggagaa gccggggccc gagaagagag gggaggaaga	780
gaaggaagag gagagggggc cgcagtgggc gctcggctct caggagccga gctcatggac	840
gggtgaggcg gccgtgtgcg cagacagtgc tccagccgcg cgcgcgcccc agggccccggc	900
ccgggcctcg gttccagaag ggagaggagc ccgccaaggc gcgcaagaga gcgggctgcc	960
tcgcagtccg agccggagag ggagcgcgag ccgcgccggc cccggacggg cctccgaaac	1020
catgaacttt ctgctctctt ggggtgcactg gaccctggct ttactgctgt acctccacca	1080
tgccaagtgg tcccaggctg caccacgac agaaggagag cagaagtccc atgaagtgat	1140
caagttcatg gatgtctacc agcgaagcta ctgccgtccg attgagaccc tgggtggacat	1200
cttccaggag taccgacg agatagagta catcttcaag ccgtcctgtg tgccgctgat	1260
gcgctgtgca ggctgctgta acgatgaagc cctggagtgc gtgcccacgt cagagagcaa	1320
catcaccatg cagatcatgc ggatcaaacc tcaccaagc cagcacatag gagagatgag	1380

cttcctacag	cacagcagat	gtgaatgcag	accaaagaaa	gacagaacaa	agccagaaaa	1440
tcactgtgag	ccttgttcag	agcggagaaa	gcatttgttt	gtccaagatc	cgcagacgtg	1500
taaatgttcc	tgcaaaaaca	cagactcgcg	ttgcaaggcg	aggcagcttg	agttaaacga	1560
acgtacttgc	agatgtgaca	agccaaggcg	gtgagccagg	ctgcaggaag	gagcctccct	1620
cagggtttcg	ggaaccagac	ctctcaccgg	aaagaccgat	taaccatgtc	accaccacgc	1680
catcatcgtc	accgttgaca	gaacagtcct	taatccagaa	agcctgacat	gaaggaagag	1740
gagactcttc	gaggagcact	ttgggtccgg	agggcgagac	tccggcagac	gcattcccgg	1800
gcaggtgacc	aagcacggtc	cctcgtggga	ctggattcgc	cattttctta	tatctgctgc	1860
taaatcgcca	agcccggaag	attagggttg	tttctgggat	tcctgtagac	acacccaccc	1920
acatacacac	atatatatat	attatatata	taaataaata	tatatgtttt	atatataaaa	1980
tatatatata	ttcttttttt	taaattaact	ctgctaattg	tattgggtgc	ttcactggat	2040
atgtttgact	gctgtggact	tgtgttggga	ggaggatgtc	ctcactcgga	tgccgacacg	2100
ggagacaatg	ggatgaaagg	cttcagtgtg	gtctgagaga	ggccgaagtc	cttttgcctg	2160
ccggggagca	agcaaggcca	gggcacgggg	gcacattggc	tcacttccag	aaacacgaca	2220
aaccatttcc	tggccctgag	tcaagaggac	agagagacag	atgatgacag	agaaagagat	2280
aaagatgccg	gttccaacca	gaagtttggg	gagcctcagg	acatggcatg	ctttgtggat	2340
ccccatgata	gtctacaaaa	gcaccccgcc	cctctgggca	ctgcctggaa	gaatcgggag	2400
cctggccagc	cttcagctcg	ctcctccact	tctgaggggc	ctaggaggcc	tcccacaggt	2460
gtcccggcaa	gagaagacac	ggtggtggaa	gaagaggcct	ggtaatggcc	cctcctcctg	2520
ggaccccttc	gtcctctcct	taccccacct	cctgggtaca	gcccaggagg	accttgtgtg	2580
atcagaccat	tgaaccact	aattctgtcc	ccaggagact	tggctgtgtg	tgtgagtggc	2640
ttacccttcc	tcatcttccc	ttcccaaggc	acagagcaat	ggggcaggac	ccgcaagccc	2700
ctcacggagg	cagagaaaag	agaaagtgtt	ttatatacgg	tacttattta	atagcccttt	2760
ttaattagaa	attaaaacag	ttaatttaat	taaagagtag	ggtttttttc	agtattcttg	2820
gttaatatatt	aatttcaact	atttatgaga	tgtatctctc	gctctctctt	atttgtactt	2880
gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtatgaaa	tctgtgtttc	2940
caatctctct	ctcccagatc	ggtgacagtc	actagcttgt	cctgagaaga	tatttaattt	3000
tgctaacact	cagctctgcc	ctcccttgtc	cccaccacac	attcctttga	aataaggttt	3060
caatatacat	ttacatacta	tatatatatt	tggcaacttg	tgtttgata	taaatatata	3120
tatatatata	tatgtttatg	tatatatgtg	attctgataa	aatagacatt	gctatttctgt	3180
tttttatatg	taaaaacaaa	acaagaaaaa	tagagaattc	tacatactaa	atctctctcc	3240
ttttttaatt	ttaatatttg	ttatcattta	tttattgggtg	ctactgttta	tccgtaataa	3300
ttgtggggga	aaaagatatt	aacatcacgt	ctttgtctct	agagcagttt	tccgagatat	3360

tccgtagtac atatttatttt ttaaacagca acaaagaaat acagatatat cttaaaaaaa 3420
aaagcatttt gtattaaaga attgaattct gatctcaaaa aaaaaaaaaa aaaaa 3475

<210> 7
<211> 1338
<212> PRT
<213> Homo sapiens

<400> 7

Met Val Ser Tyr Trp Asp Thr Gly Val Leu Leu Cys Ala Leu Leu Ser
1 5 10 15

Cys Leu Leu Leu Thr Gly Ser Ser Ser Gly Ser Lys Leu Lys Asp Pro
20 25 30

Glu Leu Ser Leu Lys Gly Thr Gln His Ile Met Gln Ala Gly Gln Thr
35 40 45

Leu His Leu Gln Cys Arg Gly Glu Ala Ala His Lys Trp Ser Leu Pro
50 55 60

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

Cys Gly Arg Asn Gly Lys Gln Phe Cys Ser Thr Leu Thr Leu Asn Thr
85 90 95

Ala Gln Ala Asn His Thr Gly Phe Tyr Ser Cys Lys Tyr Leu Ala Val
100 105 110

Pro Thr Ser Lys Lys Lys Glu Thr Glu Ser Ala Ile Tyr Ile Phe Ile
115 120 125

Ser Asp Thr Gly Arg Pro Phe Val Glu Met Tyr Ser Glu Ile Pro Glu
130 135 140

Ile Ile His Met Thr Glu Gly Arg Glu Leu Val Ile Pro Cys Arg Val
145 150 155 160

Thr Ser Pro Asn Ile Thr Val Thr Leu Lys Lys Phe Pro Leu Asp Thr
165 170 175

Leu Ile Pro Asp Gly Lys Arg Ile Ile Trp Asp Ser Arg Lys Gly Phe
180 185 190

Ile Ile Ser Asn Ala Thr Tyr Lys Glu Ile Gly Leu Leu Thr Cys Glu
195 200 205

Ala Thr Val Asn Gly His Leu Tyr Lys Thr Asn Tyr Leu Thr His Arg

210					215					220					
Gln 225	Thr	Asn	Thr	Ile	Ile 230	Asp	Val	Gln	Ile	Ser 235	Thr	Pro	Arg	Pro	Val 240
Lys	Leu	Leu	Arg	Gly 245	His	Thr	Leu	Val	Leu 250	Asn	Cys	Thr	Ala	Thr 255	Thr
Pro	Leu	Asn	Thr 260	Arg	Val	Gln	Met	Thr 265	Trp	Ser	Tyr	Pro	Asp 270	Glu	Lys
Asn	Lys	Arg 275	Ala	Ser	Val	Arg	Arg 280	Arg	Ile	Asp	Gln	Ser 285	Asn	Ser	His
Ala	Asn 290	Ile	Phe	Tyr	Ser	Val 295	Leu	Thr	Ile	Asp	Lys 300	Met	Gln	Asn	Lys
Asp 305	Lys	Gly	Leu	Tyr	Thr 310	Cys	Arg	Val	Arg	Ser 315	Gly	Pro	Ser	Phe	Lys 320
Ser	Val	Asn	Thr	Ser 325	Val	His	Ile	Tyr	Asp 330	Lys	Ala	Phe	Ile	Thr 335	Val
Lys	His	Arg	Lys 340	Gln	Gln	Val	Leu	Glu 345	Thr	Val	Ala	Gly	Lys 350	Arg	Ser
Tyr	Arg	Leu 355	Ser	Met	Lys	Val	Lys 360	Ala	Phe	Pro	Ser	Pro 365	Glu	Val	Val
Trp	Leu 370	Lys	Asp	Gly	Leu	Pro 375	Ala	Thr	Glu	Lys	Ser 380	Ala	Arg	Tyr	Leu
Thr 385	Arg	Gly	Tyr	Ser	Leu 390	Ile	Ile	Lys	Asp	Val 395	Thr	Glu	Glu	Asp	Ala 400
Gly	Asn	Tyr	Thr	Ile 405	Leu	Leu	Ser	Ile	Lys 410	Gln	Ser	Asn	Val	Phe 415	Lys
Asn	Leu	Thr	Ala 420	Thr	Leu	Ile	Val	Asn 425	Val	Lys	Pro	Gln	Ile 430	Tyr	Glu
Lys	Ala	Val 435	Ser	Ser	Phe	Pro	Asp 440	Pro	Ala	Leu	Tyr	Pro 445	Leu	Gly	Ser
Arg	Gln 450	Ile	Leu	Thr	Cys	Thr 455	Ala	Tyr	Gly	Ile	Pro 460	Gln	Pro	Thr	Ile
Lys 465	Trp	Phe	Trp	His	Pro 470	Cys	Asn	His	Asn 475	His	Ser	Glu	Ala	Arg	Cys 480

Asp Phe Cys Ser Asn Asn Glu Glu Ser Phe Ile Leu Asp Ala Asp Ser
 485 490 495
 Asn Met Gly Asn Arg Ile Glu Ser Ile Thr Gln Arg Met Ala Ile Ile
 500 505 510
 Glu Gly Lys Asn Lys Met Ala Ser Thr Leu Val Val Ala Asp Ser Arg
 515 520 525
 Ile Ser Gly Ile Tyr Ile Cys Ile Ala Ser Asn Lys Val Gly Thr Val
 530 535 540
 Gly Arg Asn Ile Ser Phe Tyr Ile Thr Asp Val Pro Asn Gly Phe His
 545 550 555 560
 Val Asn Leu Glu Lys Met Pro Thr Glu Gly Glu Asp Leu Lys Leu Ser
 565 570 575
 Cys Thr Val Asn Lys Phe Leu Tyr Arg Asp Val Thr Trp Ile Leu Leu
 580 585 590
 Arg Thr Val Asn Asn Arg Thr Met His Tyr Ser Ile Ser Lys Gln Lys
 595 600 605
 Met Ala Ile Thr Lys Glu His Ser Ile Thr Leu Asn Leu Thr Ile Met
 610 615 620
 Asn Val Ser Leu Gln Asp Ser Gly Thr Tyr Ala Cys Arg Ala Arg Asn
 625 630 635 640
 Val Tyr Thr Gly Glu Glu Ile Leu Gln Lys Lys Glu Ile Thr Ile Arg
 645 650 655
 Asp Gln Glu Ala Pro Tyr Leu Leu Arg Asn Leu Ser Asp His Thr Val
 660 665 670
 Ala Ile Ser Ser Ser Thr Thr Leu Asp Cys His Ala Asn Gly Val Pro
 675 680 685
 Glu Pro Gln Ile Thr Trp Phe Lys Asn Asn His Lys Ile Gln Gln Glu
 690 695 700
 Pro Gly Ile Ile Leu Gly Pro Gly Ser Ser Thr Leu Phe Ile Glu Arg
 705 710 715 720
 Val Thr Glu Glu Asp Glu Gly Val Tyr His Cys Lys Ala Thr Asn Gln
 725 730 735
 Lys Gly Ser Val Glu Ser Ser Ala Tyr Leu Thr Val Gln Gly Thr Ser

740					745					750					
Asp	Lys	Ser	Asn	Leu	Glu	Leu	Ile	Thr	Leu	Thr	Cys	Thr	Cys	Val	Ala
		755					760					765			
Ala	Thr	Leu	Phe	Trp	Leu	Leu	Leu	Thr	Leu	Phe	Ile	Arg	Lys	Met	Lys
	770					775					780				
Arg	Ser	Ser	Ser	Glu	Ile	Lys	Thr	Asp	Tyr	Leu	Ser	Ile	Ile	Met	Asp
785					790					795					800
Pro	Asp	Glu	Val	Pro	Leu	Asp	Glu	Gln	Cys	Glu	Arg	Leu	Pro	Tyr	Asp
				805					810					815	
Ala	Ser	Lys	Trp	Glu	Phe	Ala	Arg	Glu	Arg	Leu	Lys	Leu	Gly	Lys	Ser
			820					825					830		
Leu	Gly	Arg	Gly	Ala	Phe	Gly	Lys	Val	Val	Gln	Ala	Ser	Ala	Phe	Gly
		835					840					845			
Ile	Lys	Lys	Ser	Pro	Thr	Cys	Arg	Thr	Val	Ala	Val	Lys	Met	Leu	Lys
	850					855					860				
Glu	Gly	Ala	Thr	Ala	Ser	Glu	Tyr	Lys	Ala	Leu	Met	Thr	Glu	Leu	Lys
865					870					875					880
Ile	Leu	Thr	His	Ile	Gly	His	His	Leu	Asn	Val	Val	Asn	Leu	Leu	Gly
				885					890					895	
Ala	Cys	Thr	Lys	Gln	Gly	Gly	Pro	Leu	Met	Val	Ile	Val	Glu	Tyr	Cys
			900					905					910		
Lys	Tyr	Gly	Asn	Leu	Ser	Asn	Tyr	Leu	Lys	Ser	Lys	Arg	Asp	Leu	Phe
		915					920					925			
Phe	Leu	Asn	Lys	Asp	Ala	Ala	Leu	His	Met	Glu	Pro	Lys	Lys	Glu	Lys
	930					935					940				
Met	Glu	Pro	Gly	Leu	Glu	Gln	Gly	Lys	Lys	Pro	Arg	Leu	Asp	Ser	Val
945					950					955					960
Thr	Ser	Ser	Glu	Ser	Phe	Ala	Ser	Ser	Gly	Phe	Gln	Glu	Asp	Lys	Ser
				965					970					975	
Leu	Ser	Asp	Val	Glu	Glu	Glu	Glu	Asp	Ser	Asp	Gly	Phe	Tyr	Lys	Glu
			980					985					990		
Pro	Ile	Thr	Met	Glu	Asp	Leu	Ile	Ser	Tyr	Ser	Phe	Gln	Val	Ala	Arg
		995					1000					1005			

Gly	Met 1010	Glu	Phe	Leu	Ser	Ser 1015	Arg	Lys	Cys	Ile	His 1020	Arg	Asp	Leu
Ala	Ala 1025	Arg	Asn	Ile	Leu	Leu 1030	Ser	Glu	Asn	Asn	Val 1035	Val	Lys	Ile
Cys	Asp 1040	Phe	Gly	Leu	Ala	Arg 1045	Asp	Ile	Tyr	Lys	Asn 1050	Pro	Asp	Tyr
Val	Arg 1055	Lys	Gly	Asp	Thr	Arg 1060	Leu	Pro	Leu	Lys	Trp 1065	Met	Ala	Pro
Glu	Ser 1070	Ile	Phe	Asp	Lys	Ile 1075	Tyr	Ser	Thr	Lys	Ser 1080	Asp	Val	Trp
Ser	Tyr 1085	Gly	Val	Leu	Leu	Trp 1090	Glu	Ile	Phe	Ser	Leu 1095	Gly	Gly	Ser
Pro	Tyr 1100	Pro	Gly	Val	Gln	Met 1105	Asp	Glu	Asp	Phe	Cys 1110	Ser	Arg	Leu
Arg	Glu 1115	Gly	Met	Arg	Met	Arg 1120	Ala	Pro	Glu	Tyr	Ser 1125	Thr	Pro	Glu
Ile	Tyr 1130	Gln	Ile	Met	Leu	Asp 1135	Cys	Trp	His	Arg	Asp 1140	Pro	Lys	Glu
Arg	Pro 1145	Arg	Phe	Ala	Glu	Leu 1150	Val	Glu	Lys	Leu	Gly 1155	Asp	Leu	Leu
Gln	Ala 1160	Asn	Val	Gln	Gln	Asp 1165	Gly	Lys	Asp	Tyr	Ile 1170	Pro	Ile	Asn
Ala	Ile 1175	Leu	Thr	Gly	Asn	Ser 1180	Gly	Phe	Thr	Tyr	Ser 1185	Thr	Pro	Ala
Phe	Ser 1190	Glu	Asp	Phe	Phe	Lys 1195	Glu	Ser	Ile	Ser	Ala 1200	Pro	Lys	Phe
Asn	Ser 1205	Gly	Ser	Ser	Asp	Asp 1210	Val	Arg	Tyr	Val	Asn 1215	Ala	Phe	Lys
Phe	Met 1220	Ser	Leu	Glu	Arg	Ile 1225	Lys	Thr	Phe	Glu	Glu 1230	Leu	Leu	Pro
Asn	Ala 1235	Thr	Ser	Met	Phe	Asp 1240	Asp	Tyr	Gln	Gly	Asp 1245	Ser	Ser	Thr
Leu	Leu	Ala	Ser	Pro	Met	Leu	Lys	Arg	Phe	Thr	Trp	Thr	Asp	Ser

1250		1255		1260
Lys Pro	Lys Ala Ser Leu	Lys Ile Asp Leu Arg	Val Thr Ser Lys	
1265		1270	1275	
Ser Lys	Glu Ser Gly Leu	Ser Asp Val Ser Arg	Pro Ser Phe Cys	
1280		1285	1290	
His Ser	Ser Cys Gly His	Val Ser Glu Gly Lys	Arg Arg Phe Thr	
1295		1300	1305	
Tyr Asp	His Ala Glu Leu	Glu Arg Lys Ile Ala	Cys Cys Ser Pro	
1310		1315	1320	
Pro Pro	Asp Tyr Asn Ser	Val Val Leu Tyr Ser	Thr Pro Pro Ile	
1325		1330	1335	

<210> 8
 <211> 5187
 <212> DNA
 <213> Homo sapiens

<400> 8	
atcgagggtcc gcgggagggt cggagcgcgc caggcggaca ctcctctcgg ctcctccccg	60
gcagcggcg cggctcggag cgggctccgg ggctcgggtg cagcggccag cgggcgcctg	120
gcggcgagga ttacccgggg aagtggttgt ctcctggctg gagccgcgag acgggcgctc	180
agggcgcggg gccggcgggc gcgaacgaga ggacggactc tggcggccgg gtcgttgggc	240
gcggggagcg cgggcaccgg gcgagcaggc cgcgtcgcgc tcaccatggg cagctactgg	300
gacaccgggg tcctgctgtg cgcgtgctc agctgtctgc ttctcacagg atctagtcca	360
ggttcaaaat taaaagatcc tgaactgagt taaaaggca cccagcacat catgcaagca	420
ggccagacac tgcattctca atgcagggg gaagcagccc ataaatgggtc ttgacctgaa	480
atggtgagta aggaaagcga aaggctgagc ataactaaat ctgcctgtgg aagaaatggc	540
aaacaattct gcagtacttt aaccttgaac acagctcaag caaaccacac tggcttctac	600
agctgcaa atctagctgt acctacttca aagaagaagg aaacagaatc tgcaatctat	660
atatttatta gtgatacagg tagaccttc gtagagatgt acagtgaaat ccccgaaatt	720
atacacatga ctgaaggaag ggagctcgtc attccctgcc gggttacgtc acctaacatc	780
actgttactt taaaaaagtt tccacttgac actttgatcc ctgatggaaa acgcataatc	840
tgggacagta gaaagggtt catcatatca aatgcaacgt acaaagaaat agggcttctg	900
acctgtgaag caacagtcaa tgggcatttg tataagacaa actatctcac acatcgacaa	960
accaatacaa tcatagatgt ccaaataagc acaccacgcc cagtcaaatt acttagaggc	1020
catactcttg tcctcaattg tactgctacc actcccttga acacgagagt tcaaattgacc	1080
tggagttacc ctgatgaaaa aaataagaga gcttccgtaa ggcgacgaat tgaccaaagc	1140

aattcccatg	ccaacatatt	ctacagtgtt	cttactattg	acaaaatgca	gaacaaagac	1200
aaaggacttt	atacttgtcg	tgtaaggagt	ggaccatcat	tcaaactctgt	taacacctca	1260
gtgcatatat	atgataaagc	attcatcact	gtgaaacatc	gaaaacagca	ggtgcttgaa	1320
accgtagctg	gcaagcggtc	ttaccggctc	tctatgaaag	tgaaggcatt	tccctcgccg	1380
gaagttgtat	ggttaaaaga	tgggttacct	gcgactgaga	aatctgctcg	ctatttgact	1440
cgtggctact	cgттаattat	caaggacgta	actgaagagg	atgcagggaa	ttatacaatc	1500
ttgctgagca	taaaacagtc	aaatgtgttt	aaaaacctca	ctgccactct	aattgtcaat	1560
gtgaaacccc	agatttacga	aaaggccgtg	tcatcgtttc	cagacccggc	tctctaccca	1620
ctgggcagca	gacaaatcct	gacttgtagc	gcatatggta	tccctcaacc	tacaatcaag	1680
tggttctggc	accctgttaa	ccataatcat	tccgaagcaa	ggtgtgactt	ttgttccaat	1740
aatgaagagt	cctttatcct	ggatgctgac	agcaacatgg	gaaacagaat	tgagagcatc	1800
actcagcgca	tggcaataat	agaaggaaag	aataagatgg	ctagcacctt	ggttgtggct	1860
gactctagaa	tttctggaat	ctacatttgc	atagcttcca	ataaagttgg	gactgtggga	1920
agaaacataa	gcttttatat	cacagatgtg	ccaaatgggt	ttcatgttaa	cttggaaaaa	1980
atgccgacgg	aaggagagga	cctgaaactg	tcttgcacag	ttaacaagtt	cttatacaga	2040
gacgttactt	ggattttact	gcgagacagt	aataacagaa	caatgcacta	cagtattagc	2100
aagcaaaaaa	tggccatcac	taaggagcac	tccatcactc	ttaatcttac	catcatgaat	2160
gtttccctgc	aagattcagg	cacctatgcc	tgcagagcca	ggaatgtata	cacaggggaa	2220
gaaatcctcc	agaagaaaga	aattacaatc	agagatcagg	aagcaccata	cctcctgcga	2280
aacctcagtg	atcacacagt	ggccatcagc	agttccacca	ctttagactg	tcatgctaata	2340
ggtgtccccg	agcctcagat	cacttggttt	aaaaacaacc	acaaaataca	acaagagcct	2400
ggaattatth	taggaccagg	aagcagcacg	ctgtttattg	aaagagtcac	agaagaggat	2460
gaaggtgtct	atcactgcaa	agccaccaac	cagaagggtc	ctgtggaaag	ttcagcatac	2520
ctcactgttc	aaggaacctc	ggacaagtct	aatctggagc	tgatcactct	aacatgcacc	2580
tgtgtggctg	cgactctctt	ctggctccta	ttaaccctct	ttatccgaaa	aatgaaaagg	2640
tcttcttctg	aaataaagac	tgactaccta	tcaattataa	tggaccaga	tgaagttcct	2700
ttggatgagc	agtgtgagcg	gctcccttat	gatgccagca	agtgggagtt	tgcccgggag	2760
agacttaaac	tgggcaaata	acttggaaga	ggggcttttg	gaaaagtggg	tcaagcatca	2820
gcatttgga	ttaagaaata	acctacgtgc	cggactgtgg	ctgtgaaaat	gctgaaagag	2880
ggggccacgg	ccagcgagta	caaagctctg	atgactgagc	taaaaatctt	gacccacatt	2940
ggccaccatc	tgaacgtggg	taacctgctg	ggagcctgca	ccaagcaagg	agggcctctg	3000
atggtgattg	ttgaatactg	caaatatgga	aatctctcca	actacctcaa	gagcaaacgt	3060
gacttatthh	ttctcaacaa	ggatgcagca	ctacacatgg	agcctaagaa	agaaaaaatg	3120

gagccaggcc	tggaacaagg	caagaaacca	agactagata	gcgtcaccag	cagcgaaagc	3180
tttgcgagct	ccggctttca	ggaagataaa	agtctgagtg	atgttgagga	agaggaggat	3240
tctgacggtt	tctacaagga	gcccatact	atggaagatc	tgattttcta	cagttttcaa	3300
gtggccagag	gcatggagtt	cctgtcttcc	agaaagtgc	ttcatcggga	cctggcagcg	3360
agaaacattc	ttttatctga	gaacaacgtg	gtgaagattt	gtgatttttg	ccttgcccgg	3420
gatatttata	agaaccccga	ttatgtgaga	aaaggagata	ctcgacttcc	tctgaaatgg	3480
atggctcctg	aatctatctt	tgacaaaatc	tacagcacca	agagcgacgt	gtggctcttac	3540
ggagtattgc	tgtgggaaat	cttctcctta	ggtgggtctc	catacccagg	agtacaaatg	3600
gatgaggact	tttgcagtcg	cctgagggaa	ggcatgagga	tgagagctcc	tgagtactct	3660
actcctgaaa	tctatcagat	catgctggac	tgctggcaca	gagacccaaa	agaaaggcca	3720
agatttgcag	aacttgtgga	aaaactaggt	gatttgcctc	aagcaaagt	acaacaggat	3780
ggtaaagact	acatcccaat	caatgccata	ctgacaggaa	atagtggggt	tacataactca	3840
actcctgcct	tctctgagga	cttcttcaag	gaaagtattt	cagctccgaa	gtttaattca	3900
ggaagctctg	atgatgtcag	atacgtaa	gctttcaagt	tcatgagcct	ggaaagaatc	3960
aaaacctttg	aagaactttt	accgaatgcc	acctccatgt	ttgatgacta	ccaggggcgac	4020
agcagcactc	tgttggcctc	tcccatgctg	aagcgcttca	cctggactga	cagcaaacc	4080
aaggcctcgc	tcaagattga	cttgagagta	accagtaaaa	gtaaggagtc	ggggctgtct	4140
gatgtcagca	ggcccagttt	ctgccattcc	agctgtgggc	acgtcagcga	aggcaagcgc	4200
aggttcacct	acgaccacgc	tgagctggaa	aggaaaatcg	cgtgctgctc	ccgccccca	4260
gactacaact	cggtggctct	gtactccacc	ccacccatct	agagtttgac	acgaagcctt	4320
atttctagaa	gcacatgtgt	atttataccc	ccaggaaact	agcttttgcc	agtattatgc	4380
atatataagt	ttacaccttt	atctttccat	gggagccagc	tgctttttgt	gattttttta	4440
atagtgcctt	tttttttttg	actaacaaga	atgtaactcc	agatagagaa	atagtgacaa	4500
gtgaagaaca	ctactgctaa	atcctcatgt	tactcagtgt	tagagaaatc	cttcctaaac	4560
ccaatgactt	ccctgctcca	acccccgcca	cctcagggca	cgcaggacca	gtttgattga	4620
ggagctgcac	tgatcaccca	atgcatcacg	tacccactg	ggccagccct	gcagcccaaa	4680
accaggggca	acaagcccg	tagccccagg	gatcactggc	tggcctgagc	aacatctcgg	4740
gagtcctcta	gcaggcctaa	gacatgtgag	gaggaaaagg	aaaaaaagca	aaaagcaagg	4800
gagaaaagag	aaaccgggag	aaggcatgag	aaagaatttg	agacgcacca	tgtgggcacg	4860
gagggggacg	gggctcagca	atgccatttc	agtggcttcc	cagctctgac	ccttctacat	4920
ttgagggccc	agccaggagc	agatggacag	cgatgagggg	acattttctg	gattctggga	4980
ggcaagaaaa	ggacaaatat	cttttttgga	actaaagcaa	attttagaac	tttacctatg	5040
gaagtgggtc	tatgtccatt	ctcattcgtg	gcatgttttg	atttgtagca	ctgaggggtg	5100

cactcaactc tgagcccata cttttggctc ctctagtaag atgcactgaa aacttagcca 5160
gagttagggtt gtctccaggc catgatg 5187

<210> 9
<211> 1333
<212> PRT
<213> Mus musculus

<400> 9

Met Val Ser Cys Trp Asp Thr Ala Val Leu Pro Tyr Ala Leu Leu Gly
1 5 10 15

Cys Leu Leu Leu Thr Gly Tyr Gly Ser Gly Ser Lys Leu Lys Val Pro
20 25 30

Glu Leu Ser Leu Lys Gly Thr Gln His Val Met Gln Ala Gly Gln Thr
35 40 45

Leu Phe Leu Lys Cys Arg Gly Glu Ala Ala His Ser Trp Ser Leu Pro
50 55 60

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

Ala Cys Gly Arg Asp Asn Arg Gln Phe Cys Ser Thr Leu Thr Leu Asp
85 90 95

Thr Ala Gln Ala Asn His Thr Gly Leu Tyr Thr Cys Arg Tyr Leu Pro
100 105 110

Thr Ser Thr Ser Lys Lys Lys Lys Ala Glu Ser Ser Ile Tyr Ile Phe
115 120 125

Val Ser Asp Ala Gly Ser Pro Phe Ile Glu Met His Thr Asp Ile Pro
130 135 140

Lys Leu Val His Met Thr Glu Gly Arg Gln Leu Ile Ile Pro Cys Arg
145 150 155 160

Val Thr Ser Pro Asn Val Thr Val Thr Leu Lys Lys Phe Pro Phe Asp
165 170 175

Thr Leu Thr Pro Asp Gly Gln Arg Ile Thr Trp Asp Ser Arg Arg Gly
180 185 190

Phe Ile Ile Ala Asn Ala Thr Tyr Lys Glu Ile Gly Leu Leu Asn Cys
195 200 205

Glu Ala Thr Val Asn Gly His Leu Tyr Gln Thr Asn Tyr Leu Thr His

210	215	220
Arg 225	Gln Thr Asn Thr Ile 230	Leu Asp Val Gln Ile 235
Val Arg Leu Leu His 245	Gly Gln Thr Leu Val 250	Leu Asn Cys Thr Ala 255
Thr Glu Leu Asn 260	Thr Arg Val Gln Met 265	Ser Trp Asn Tyr Pro 270
Ala Thr Lys 275	Arg Ala Ser Ile Arg 280	Gln Arg Ile Asp Arg 285
His Asn 290	Asn Val Phe His Ser 295	Val Leu Lys Ile Asn 300
Arg 305	Asp Lys Gly Leu Tyr 310	Thr Cys Arg Val Lys 315
Gln Ser Phe Asn 325	Thr Ser Val His Val Tyr 330	Glu Lys Gly Phe Ile 335
Val Lys His Arg 340	Lys Gln Pro Val Gln 345	Glu Thr Thr Ala Gly 350
Ser Tyr Arg 355	Leu Ser Met Lys Val 360	Lys Ala Phe Pro Ser 365
Val Trp 370	Leu Lys Asp Gly Ser 375	Pro Ala Thr Leu Lys 380
Leu 385	Val His Gly Tyr Ser 390	Leu Ile Ile Lys Asp 395
Ala Gly Asp Tyr Thr 405	Ile Leu Leu Gly Ile 410	Lys Gln Ser Arg Leu 415
Lys Asn Leu Thr 420	Ala Thr Leu Ile Val 425	Asn Val Lys Pro Gln 430
Glu Lys Ser 435	Val Ser Ser Leu Pro 440	Ser Pro Pro Leu Tyr 445
Ser Arg 450	Gln Val Leu Thr Cys 455	Thr Val Tyr Gly Ile 460
Ile 465	Thr Trp Leu Trp His 470	Pro Cys His His Asn 475
		His Ser Lys Glu Arg 480

Tyr Asp Phe Cys Thr Glu Asn Glu Glu Ser Phe Ile Leu Asp Pro Ser
485 490 495

Ser Asn Leu Gly Asn Arg Ile Glu Ser Ile Ser Gln Arg Met Thr Val
500 505 510

Ile Glu Gly Thr Asn Lys Thr Val Ser Thr Leu Val Val Ala Asp Ser
515 520 525

Gln Thr Pro Gly Ile Tyr Ser Cys Arg Ala Phe Asn Lys Ile Gly Thr
530 535 540

Val Glu Arg Asn Ile Lys Phe Tyr Val Thr Asp Val Pro Asn Gly Phe
545 550 555 560

His Val Ser Leu Glu Lys Met Pro Ala Glu Gly Glu Asp Leu Lys Leu
565 570 575

Ser Cys Val Val Asn Lys Phe Leu Tyr Arg Asp Ile Thr Trp Ile Leu
580 585 590

Leu Arg Thr Val Asn Asn Arg Thr Met His His Ser Ile Ser Lys Gln
595 600 605

Lys Met Ala Thr Thr Gln Asp Tyr Ser Ile Thr Leu Asn Leu Val Ile
610 615 620

Lys Asn Val Ser Leu Glu Asp Ser Gly Thr Tyr Ala Cys Arg Ala Arg
625 630 635 640

Asn Ile Tyr Thr Gly Glu Asp Ile Leu Arg Lys Thr Glu Val Leu Val
645 650 655

Arg Asp Ser Glu Ala Pro His Leu Leu Gln Asn Leu Ser Asp Tyr Glu
660 665 670

Val Ser Ile Ser Gly Ser Thr Thr Leu Asp Cys Gln Ala Arg Gly Val
675 680 685

Pro Ala Pro Gln Ile Thr Trp Phe Lys Asn Asn His Lys Ile Gln Gln
690 695 700

Glu Pro Gly Ile Ile Leu Gly Pro Gly Asn Ser Thr Leu Phe Ile Glu
705 710 715 720

Arg Val Thr Glu Glu Asp Glu Gly Val Tyr Arg Cys Arg Ala Thr Asn
725 730 735

Gln Lys Gly Ala Val Glu Ser Ala Ala Tyr Leu Thr Val Gln Gly Thr

740					745					750					
Ser	Asp	Lys 755	Ser	Asn	Leu	Glu	Leu 760	Ile	Thr	Leu	Thr	Cys 765	Thr	Cys	Val
Ala	Ala 770	Thr	Leu	Phe	Trp	Leu 775	Leu	Leu	Thr	Leu	Phe 780	Ile	Arg	Lys	Leu
Lys 785	Arg	Ser	Ser	Ser	Glu 790	Val	Lys	Thr	Asp	Tyr 795	Leu	Ser	Ile	Ile	Met 800
Asp	Pro	Asp	Glu	Val 805	Pro	Leu	Asp	Glu	Gln 810	Cys	Glu	Arg	Leu	Pro 815	Tyr
Asp	Ala	Ser	Lys 820	Trp	Glu	Phe	Ala	Arg 825	Glu	Arg	Leu	Lys	Leu 830	Gly	Lys
Ser	Leu	Gly 835	Arg	Gly	Ala	Phe	Gly 840	Lys	Val	Val	Gln	Ala 845	Ser	Ala	Phe
Gly	Ile 850	Lys	Lys	Ser	Pro	Thr 855	Cys	Arg	Thr	Val	Ala 860	Val	Lys	Met	Leu
Lys 865	Glu	Gly	Ala	Thr	Ala 870	Ser	Glu	Tyr	Lys	Ala 875	Leu	Met	Thr	Glu	Leu 880
Lys	Ile	Leu	Thr	His 885	Ile	Gly	His	His	Leu 890	Asn	Val	Val	Asn	Leu 895	Leu
Gly	Ala	Cys	Thr 900	Lys	Gln	Gly	Gly	Pro 905	Leu	Met	Val	Ile	Val 910	Glu	Tyr
Cys	Lys	Tyr 915	Gly	Asn	Leu	Ser	Asn 920	Tyr	Leu	Lys	Ser	Lys 925	Arg	Asp	Leu
Phe	Cys 930	Leu	Asn	Lys	Asp	Ala 935	Ala	Leu	His	Met	Glu 940	Leu	Lys	Lys	Glu
Ser 945	Leu	Glu	Pro	Gly	Leu 950	Glu	Gln	Gly	Gln	Lys 955	Pro	Arg	Leu	Asp	Ser 960
Val	Ser	Ser	Ser	Ser 965	Val	Thr	Ser	Ser	Ser 970	Phe	Pro	Glu	Asp	Arg 975	Ser
Val	Ser	Asp	Val 980	Glu	Gly	Asp	Glu	Asp 985	Tyr	Ser	Glu	Ile	Ser 990	Lys	Gln
Pro	Leu	Thr 995	Met	Glu	Asp	Leu	Ile 1000	Ser	Tyr	Ser	Phe	Gln 1005	Val	Ala	Arg

Gly	Met 1010	Glu	Phe	Leu	Ser	Ser 1015	Arg	Lys	Cys	Ile	His 1020	Arg	Asp	Leu
Ala	Ala 1025	Arg	Asn	Ile	Leu	Leu 1030	Ser	Glu	Asn	Asn	Val 1035	Val	Lys	Ile
Cys	Asp 1040	Phe	Gly	Leu	Ala	Arg 1045	Asp	Ile	Tyr	Lys	Asn 1050	Pro	Asp	Tyr
Val	Arg 1055	Arg	Gly	Asp	Thr	Arg 1060	Leu	Pro	Leu	Lys	Trp 1065	Met	Ala	Pro
Glu	Ser 1070	Ile	Phe	Asp	Lys	Val 1075	Tyr	Ser	Thr	Lys	Ser 1080	Asp	Val	Trp
Ser	Tyr 1085	Gly	Val	Leu	Leu	Trp 1090	Glu	Ile	Phe	Ser	Leu 1095	Gly	Gly	Ser
Pro	Tyr 1100	Pro	Gly	Val	Gln	Met 1105	Asp	Glu	Asp	Phe	Cys 1110	Ser	Arg	Leu
Lys	Glu 1115	Gly	Met	Arg	Met	Arg 1120	Thr	Pro	Glu	Tyr	Ala 1125	Thr	Pro	Glu
Ile	Tyr 1130	Gln	Ile	Met	Leu	Asp 1135	Cys	Trp	His	Lys	Asp 1140	Pro	Lys	Glu
Arg	Pro 1145	Arg	Phe	Ala	Glu	Leu 1150	Val	Glu	Lys	Leu	Gly 1155	Asp	Leu	Leu
Gln	Ala 1160	Asn	Val	Gln	Gln	Asp 1165	Gly	Lys	Asp	Tyr	Ile 1170	Pro	Leu	Asn
Ala	Ile 1175	Leu	Thr	Arg	Asn	Ser 1180	Gly	Phe	Thr	Tyr	Ser 1185	Thr	Pro	Thr
Phe	Ser 1190	Glu	Asp	Leu	Phe	Lys 1195	Asp	Gly	Phe	Ala	Asp 1200	Pro	His	Phe
His	Ser 1205	Gly	Ser	Ser	Asp	Asp 1210	Val	Arg	Tyr	Val	Asn 1215	Ala	Phe	Lys
Phe	Met 1220	Ser	Leu	Glu	Arg	Ile 1225	Lys	Thr	Phe	Glu	Glu 1230	Leu	Ser	Pro
Asn	Ser 1235	Thr	Ser	Met	Phe	Glu 1240	Asp	Tyr	Gln	Leu	Asp 1245	Thr	Ser	Thr
Leu	Leu	Gly	Ser	Pro	Leu	Leu	Lys	Arg	Phe	Thr	Trp	Thr	Glu	Thr

1250		1255		1260
Lys Pro	Lys Ala Ser Met	Lys Ile Asp Leu Arg	Ile Ala Ser Lys	
1265		1270	1275	
Ser Lys	Glu Ala Gly Leu	Ser Asp Leu Pro Arg	Pro Ser Phe Cys	
1280		1285	1290	
Phe Ser	Ser Cys Gly His	Ile Arg Pro Val Gln	Asp Asp Glu Ser	
1295		1300	1305	
Glu Leu	Gly Lys Glu Ser	Cys Cys Ser Pro Pro	Pro Asp Tyr Asn	
1310		1315	1320	
Ser Val	Val Leu Tyr Ser	Ser Pro Pro Ala		
1325		1330		

<210> 10
 <211> 6280
 <212> DNA
 <213> Mus musculus

<400> 10	
agcgcggtgg cggacactcc cgggaggtag tgctagtggg ggtggctgct gctcggagcg	60
ggctccggga ctcaagcgca gcggctagcg gacgcgggac ggcgaggatc cccccacacc	120
acccccctcg gctgcaggcg cggagaaggg ctctcgcggc gccaaagcaga agcaggaggg	180
gaccggctcg agcggctgcg ccgtcggcct cggagagcgc gggcaccggg ccaacaggcc	240
gcgtcttgct caccatgggtc agctgctggg acaccgcggt cttgccttac gcgctgctcg	300
ggtgtctgct tctcacagga tatggctcag ggtcgaagtt aaaagtgcct gaactgagtt	360
taaaaggcac ccagcatgtc atgcaagcag gccagactct ctttctcaag tgcagagggg	420
aggcagccca ctcatggtct ctgcccacga ccgtgagcca ggaggacaaa aggctgagca	480
tcactcccc atcggcctgt gggagggata acaggcaatt ctgcagcacc ttgaccttg	540
acacggcgca ggccaaccac acgggcctct acacctgtag atacctccct acatctactt	600
cgaagaaaaa gaaagcggaa tcttcaatct acatatttgt tagtgatgca gggagtcctt	660
tcatagagat gcacactgac atacccaaac ttgtgcacat gacggaagga agacagctca	720
tcatcccctg ccgggtgacg tcacccaacg tcacagtcac cctaaaaaag tttccatttg	780
atactcttac ccctgatggg caaagaataa catgggacag taggagagggc ttataatag	840
caaatgcaac gtacaaagag ataggactgc tgaactgcga agccaccgtc aacgggcacc	900
tgtaccagac aaactatctg acccatcggc agaccaatac aatcctagat gtccaaatac	960
gcccgccgag ccagtgaga ctgctccacg ggcagactct tgctcctaac tgcaccgcca	1020
ccacggagct caatacgagg gtgcaaatga gctggaatta ccctggtaaa gcaactaaga	1080
gagcatctat aaggcagcgg attgaccgga gccattccca caacaatgtg ttccacagtg	1140

ttcttaagat	caacaatgtg	gagagccgag	acaaggggct	ctacacctgt	cgcgtaaga	1200
gtgggtcctc	gttccagtct	ttcaacacct	ccgtgcatgt	gtatgaaaaa	ggattcatca	1260
gtgtgaaaca	tcggaagcag	ccggtgcagg	aaaccacagc	aggaagacgg	tcctatcggc	1320
tgtccatgaa	agtgaaggcc	ttcccctccc	cagaaatcgt	atgggttaaaa	gatggctcgc	1380
ctgcaacatt	gaagtctgct	cgctattttg	tacatggcta	ctcattaatt	atcaaagatg	1440
tgacaaccga	ggatgcaggg	gactatacga	tcttgctggg	cataaagcag	tcaaggctat	1500
ttaaaaacct	cactgccact	ctcattgtaa	acgtgaaacc	tcagatctac	gaaaagtccg	1560
tgtcctcgct	tccaagccca	cctctctatc	cgctgggcag	cagacaagtc	ctcacttgca	1620
ccgtgtatgg	catccctcgg	ccaacaatca	cgtggctctg	gcacccctgt	caccacaatc	1680
actccaaaga	aagggtatgac	ttctgcactg	agaatgaaga	atcctttatc	ctggatccca	1740
gcagcaactt	aggaaacaga	attgagagca	tctctcagcg	catgacggtc	atagaaggaa	1800
caaataagac	ggttagcaca	ttggtggtgg	ctgactctca	gacccctgga	atctacagct	1860
gccgggcctt	caataaaaata	gggactgtgg	aaagaaacat	aaaattttat	gtcacagatg	1920
tgccgaatgg	ctttcacggt	tccttggaag	agatgccagc	cgaaggagag	gacctgaaac	1980
tgtcctgtgt	ggtcaataaa	ttcctgtaca	gagacattac	ctggattctg	ctacggacag	2040
ttaacaacag	aaccatgcac	catagtatca	gcaagcaaaa	aatggccacc	actcaagatt	2100
actccatcac	tctgaacctt	gtcatcaaga	acgtgtctct	agaagactcg	ggcacctatg	2160
cgtgcagagc	caggaacata	tacacagggg	aagacatcct	tcggaagaca	gaagttctcg	2220
ttagagattc	ggaagcgcca	cacctgcttc	aaaacctcag	tgactacgag	gtctccatca	2280
gtggctctac	gaccttagac	tgtcaagcta	gaggtgtccc	cgcgccctcag	atcacttggt	2340
tcaaaaacaa	ccacaaaata	caacaagaac	cggaattat	tttaggacca	ggaaacagca	2400
cgctgtttat	tgaagagtc	acagaggagg	atgaggggtg	ctataggtgc	cgagccacca	2460
accagaaggg	ggccgtggaa	agcgcagcct	acctcaccgt	gcaaggaacc	tcagacaagt	2520
caaacctgga	gctgatcacg	ctcacgtgca	catgcgtggc	tgcgaccctc	ttttggctcc	2580
ttctaactct	cttcatcaga	aaactgaagc	ggtcttcttc	cgaagttaaag	acagactacc	2640
tgtcaatcat	tatggaccca	gatgaagttc	ccctggatga	gcagtgtgaa	cggctgccct	2700
atgatgccag	caagtgggag	tttgacggg	agagactgaa	actaggcaaa	tcgctcggaa	2760
gaggggcttt	tgggaaagtc	gttcaagcct	ctgcatttgg	cattaagaaa	tcacccacct	2820
gccggactgt	ggctgtgaag	atgttgaaag	agggggccac	agccagtgag	tacaaagctc	2880
tgatgaccga	actcaagatc	ttgaccaca	tcggccatca	tctgaatgtg	gttaacctcc	2940
tgggagcctg	cacgaagcaa	ggagggcctc	tgatgggtgat	cgtggaatac	tgcaaatacg	3000
gaaacctgtc	caactacctc	aagagcaaac	gtgacttatt	ctgtctcaac	aaggacgcag	3060
ccttgcatat	ggagctcaag	aaagagagcc	tggaaccagg	cctggagcag	ggccagaagc	3120

cccgccctaga	cagtgtcagc	agctcaagtg	tcaccagctc	cagcttccct	gaagaccgaa	3180
gcgtgagcga	tgtggaagga	gacgaggatt	acagtgagat	ctccaagcag	cccctcacca	3240
tggaagacct	gatttcctac	agtttccaag	tggccagagg	catggagttt	ctgtcctcca	3300
gaaagtgcac	tcacgaggac	ctggcagcga	gaaacatcct	tttatctgag	aacaatgtgg	3360
tgaagatttg	cgactttggc	ctggcccggg	atatttataa	gaaccctgat	tatgtgagga	3420
gaggagatac	tcgacttccc	ctaaaatgga	tggctcctga	atccatcttt	gacaaggctc	3480
acagcaccaa	gagcgatgtg	tggctctatg	gcgtgttgct	gtgggagatc	ttctccttag	3540
ggggttctcc	atacccagga	gtgcaaattg	atgaagactt	ctgcagccgc	ctgaagggaag	3600
gcatgcggat	gagaaccccg	gagtatgcca	cacctgaaat	ctaccaaatac	atgttggtt	3660
gctggcacaa	agaccccaaa	gagaggcccc	ggtttgctga	acttggtggag	aaacttggtg	3720
acctgcttca	agccaacgtc	caacaggatg	ggaaagatta	catccccctc	aatgccatac	3780
tgactagaaa	cagtggcttc	acataactga	cccccacctt	ctctgaggac	cttttcaagg	3840
acggccttgc	agatccacat	tttcattccg	gaagctctga	tgatgtgaga	tatgtaaacg	3900
ctttcaaatt	catgagcctg	gaaagaatca	aaacctttga	ggagctttca	ccgaactcca	3960
cctccatggt	tgaggactat	cagctggaca	ctagcactct	gctgggctcc	cccttgctga	4020
agcggttcac	ctggactgag	accaagccca	aggcctccat	gaagatagac	ttgagaatag	4080
cgagtaaaag	caaggaggcg	ggactttccg	atctgccgag	gccagcttc	tgcttctcca	4140
gctgtggcca	catcaggccc	gtgcaggacg	atgaatctga	gctgggaaag	gagtcctgct	4200
gttctccacc	cccagactac	aactccgtgg	tgttgacttc	ctccccgccc	gcctaaagct	4260
tctcaccagc	cccgacaacc	agccccctgac	agtattatac	atctatgagt	ttacacctat	4320
tccgctccac	aggagccagc	tgcttttctg	gacctttaat	cgtgcttttt	tgttttttgt	4380
tttgtttggt	gttgctgttt	tgactaacia	gaatgtaacc	ccagttagtg	acgtgtgaag	4440
aatactattg	ttagagaaat	cccccccgca	aagcctcagg	gtaacctgga	caggaaggag	4500
caggtgcctc	tggcgaccgc	cccgcaccac	ggccatggcc	ccaccacccc	tccctgcagc	4560
tgtgggacta	gaggcagtaa	gccatttagc	tcattggctg	atgcactgac	ctgctctgtc	4620
tctcttatgg	aggaaagggg	gaacagagca	aacaggaggc	acaggaaaag	gctttgggat	4680
gcgtccgtcc	tgtggagccc	gtgcaggagg	gggctccgct	atgccacttc	agtgacttct	4740
cactcctggc	ctccgctggt	tcgggcccc	ttccaagagg	tatcagagca	gaacatgagg	4800
gacgtttcct	agaccagggc	acatgttctc	gggaaccaca	gttaatctta	aatcttttcc	4860
cgggagtctt	ctgttgctctg	tttaccatcc	aaagcatatt	taacatgtgt	cagtgggggt	4920
ggcgcttggc	ttctgaggcc	agagccatca	tcagttcctc	tagtgagatg	cattgaggtc	4980
atacccaagc	ttgcaggcct	gaccttcgca	tactgctcac	ggggagttaa	gtgggtccagt	5040
ttggcctagt	aagggttcct	actgatgggc	tcaaaagcca	catttttaa	aggttttatc	5100

tcaagtatta	atatatagac	aagacactta	tgcattatcc	tgttttatat	atccaatgaa	5160
tataactggg	gcgagttaag	agtcattggtc	tagaaaaggg	gtttctctgt	acccaaatcg	5220
ggctggttgg	accaagaccc	agagaggcag	agtggttgtc	ccagctatag	ttactaaact	5280
actcacccaa	agttgggacc	tcactggctt	ctctttactt	catcatggat	ttcaccatcc	5340
caaggcagtc	tgagaggagc	taaagagtat	cagcccatat	ttattaagca	ctttatgctc	5400
cttggcacag	caggtgatgt	gtaatttatg	caagctccct	ctccagctag	gactcaggat	5460
attagtcaat	gagccatcaa	aaggaaaaaa	aaaaaaccat	cttattttca	tctgtttcat	5520
accttgtctg	gggtctaattg	acgatggcaa	cagggtagac	atgggaagac	agggtagaaa	5580
agggtgcccg	ctctttgggg	tctagagatg	agccctgggt	ctctaaaatg	gctctcttag	5640
aagttgtatg	tgcaaattat	ggtctgtgtg	cttaggtcgt	gcacacctgc	cggagccggt	5700
cacagctggg	cagacgatga	atagctgctt	tgggagagca	gagcatgcta	gccacttaat	5760
tctctgaccg	ggccagcatc	atgggtacct	gctccccctg	gtaccccatc	cttaaggttt	5820
tctgtctgat	gagactggag	gcccagtgca	atccccactg	agacagcctg	cagcccactg	5880
tggctcttgg	tgcactcacc	agccaggact	agacaagtag	gaaagggctt	ctagccacac	5940
tggagaaaaa	gaaaatcagg	tagggctggc	caaagacatc	tttgtccatt	cgcaaaaagct	6000
cttgtcggct	gcagtgtgta	agtcaggcga	tgagacagag	gctaccagag	aaacggatga	6060
gaacagcagc	ctgaggtttc	tcattccagat	atccagcaat	tgggggggtg	gggaagacca	6120
tagatggtcc	tgtattattc	cgattttaat	aattctaattc	gtgatcatta	agagacttta	6180
gtaaatgtcc	ctttcccaca	aaagtaaaga	aaagctatcg	ggattctctg	gttctgctta	6240
aagacttagc	tttggagcct	atgaaagttg	atcagccagg			6280