

1209120
SEQUENCE LISTING

<110> F. Hoffmann-La Roche AG
<120> Predictive markers for EGFR inhibitor treatment
<130> 24404WO
<150> EP07114292.1
<151> 2007-08-14
<160> 54
<170> PatentIn version 3.4

<210> 1
<211> 894
<212> DNA
<213> Homo sapiens

```
<400> 1
aggcggggct tgcacacgct ggtcacgcgg tcagctattg acacttcctg gtgggatccg      60
agtgaggcga cggggtaggg gttggcgctc aggcggcgac catggcgat caccggcctca      120
ctgtgcctct catttgtgatg agcgtgttct ggggcttcgt cggcttcttg gtgccttggt      180
tcatccctaa gggtcctaac cggggaggtta tcattaccat gttggtgacc tggtcagttt      240
gctgctatct cttttggctg attgcaattc tggcccaact caaccctctc tttggaccgc      300
aattgaaaaa tgaaaccatc tggatatctga agtatcattg gccttgagga agaagacatg      360
ctctacagtg ctcagtcctt gaggtcacga gaagagaatg ccttctagat gcaaaatcac      420
ctccaaacca gaccactttt cttgacttgc ctgttttggc cattagctgc cttaaacgtt      480
aacagcacat ttgaatgcct tattctacaa tgcagcgtgt tttcctttgc cttttttgca      540
ctttggtgaa ttacgtgcct ccataacctg aactgtgccg actccacaaa acgattatgt      600
actcttctga gatagaagat gctgttcttc tgagagatac gttactctct ccttggaaatc      660
tgtggatttg aagatggctc ctgccttctc acgtgggaat cagtgaagtg tttagaaact      720
gctgcaagac aaacaagact ccagtggggg ggtcagtagg agagcacgtt cagaggggaag      780
agccatctca acagaatcgc accaaactat actttcagga tgaatttctt ctttctgcca      840
tcttttgtaa taaatatttt cctcctttct atggaaaatct ggaaaaaaaaaaaa      894
```

<210> 2
<211> 2540
<212> DNA
<213> Homo sapiens

```
<400> 2
acgagacgaa gacggaaccg gagccggttg cgggcagtgg acgcggttct gccgagagcc      60
gaagatggca gtgaacgtat actcaacgtc agtgaccagt gataacctaa gtcgacatga      120
catgctggcc tggatcaatg agtctctgca gttgaatctg acaaagatcg aacagttgtg      180
ctcaggggct gcgtattgtc agtttatgga catgctgttc cctggctcca ttgccttgaa      240
gaaagtgaaa ttccaagcta agctagaaca cgagtacatc cagaacttca aaatactaca      300
```

						1209120	
agcaggTTTT	aagagaatgg	gtgttgacaa	aataattcct	gtggacaaat	tagtaaaagg		360
aaagtttcag	gacaattttg	aattcgttca	gtggttcaag	aagtttttcg	atgcaaacta		420
tgatggaaaa	gactatgacc	ctgtggctgc	cagacaagg	caagaaactg	cagtggctcc		480
ttcccttggt	gctccagctc	tgaataaacc	gaagaaacct	ctcacttcta	gcagtgcagc		540
tccccagagg	cccatctcaa	cacagagaac	cgctgcggct	cctaaggctg	gccctggtgt		600
ggtgcgaaag	aaccctggtg	tgggcaacgg	agacgacgag	gcagctgagt	tgatgcagca		660
ggtcaacgta	ttgaaactta	ctgttgaaga	cttgagagaaa	gagagggatt	tctacttcgg		720
aaagctacgg	aacattgaat	tgatttgcca	ggagaacgag	ggggaaaacg	accctgtatt		780
gcagaggatt	gtagacattc	tgtatgccac	agatgaaggc	tttgtgatac	ctgatgaagg		840
ggggccacag	gaggagcaag	aagagtatta	acagcctgga	ccagcagagc	aacatcgga		900
ttcttcactc	caaatcatgt	gcttaactgt	aaaatactcc	cttttgttat	ccttagagga		960
ctcactgggt	tcttttcata	agcaaaaagt	acctcttctt	aaagtgcact	ttgcagacgt		1020
ttcactcctt	ttccaataag	tttgagttag	gagcttttac	cttgtagcag	agcagtatta		1080
acatctagtt	ggttcacctg	gaaaacagag	aggctgaccg	tggggctcac	catgcggatg		1140
cgggtcacac	tgaatgctgg	agagatgtat	gtaatatgct	gaggtggcga	cctcagtggg		1200
gaaatgtaaa	gactgaattg	aattttaagc	taatgtgaaa	tcagagaatg	ttgtaataag		1260
taaatgcctt	aagagtattt	aaaatatgct	tccacatttc	aaaatataaa	atgtaacatg		1320
acaagagatt	ttgcgtttga	cattgtgtct	gggaagggaag	ggccagacct	tggaaccttt		1380
ggaacctgct	gtcaacagg	cttacagggc	tgcttgaacc	ctcataggcc	taggccttgg		1440
tctaaaagga	acatttaaaa	agttgccctg	taaagttatt	tggtgtcatt	gaccaattgc		1500
atcccagcta	aaaagcaaga	ggcatcggtg	cctggataat	agaggatgtg	tttcagccct		1560
gagatgttac	agttgaagag	cttggtttca	ttgagcattt	ctctatTTTT	ccagttatcc		1620
cgaattttct	atgtattatt	ttttggggaa	gtgagggtgtg	cccagttttt	taatctaaca		1680
actacttttg	gggacttgcc	cacatctctg	ggatttgaat	ggggattgta	tcccatttta		1740
ctgtctttta	ggtttacatt	taccacgttt	ctcttctctg	ctccccttgc	ccactgggac		1800
tcctcttttg	ctccttgaag	tttgctgctt	agagtgggaa	gtgcagcagg	cagggtgatca		1860
tgctgcaagt	tctttctgga	cctctggcaa	agggagtgg	cagtgaaggc	catcgttacc		1920
ttgggatctg	ccaggctggg	gtgttttcgg	tatctgctgt	tcacagctct	ccactgtaat		1980
ccgaatactt	tgccagtgca	ctaattctct	tggagataaa	attcattagt	gtgttactaa		2040
atgttaattt	tcttttgcg	aaaatacagt	accgtgtctg	aattaattat	taatatttaa		2100
aatacttcat	tccttaactc	tccctcattt	gctttgccca	cagcctattc	agttcctttg		2160
tttggcagga	ttctgcaaaa	tgtgtctcac	ccactactga	gattgttcag	cccctgatgt		2220
atttgatttg	atttgtttct	ggtggtagct	tgtcctgaaa	tgtgtgtaga	aagcaagtat		2280
tttatgataa	aaatgttggtg	tagtgcatgc	tctgtgtgga	attcagagga	aaaccagat		2340

1209120

tcagtgatta acaatgccaa aaaatgcaag taactagcca ttgttcaa	gacagtggtg	2400
ctattttctt tttgtggcct ttttagacttt tgttgcccta aaattccatt	ttattgggaa	2460
cccattttcc acctgggtctt tcttgacagg gtttttttct actttaaca	gtttctaaat	2520
aaaattctgt atttcaaaaa		2540

<210> 3
 <211> 1023
 <212> DNA
 <213> Homo sapiens

<400> 3		
gttggctgcc ggtgagttgg gtgccggtgg agtcgtgttg gtcctcagaa	tccccgcgta	60
gccgctgcct cctcctaccc tcgcatgtt tcttaccgg tctgagtacg	acaggggct	120
gaatactttt tctccgaag gaagattatt tcaagtggaa tatgccattg	aggctatcaa	180
gcttggttct acagccattg ggatccagac atcagagggt gtgtgcctag	ctgtggagaa	240
gagaattact tccccactga tggagcccag cagcattgag aaaattgtag	agattgatgc	300
tcacataggt tgtgccatga gtgggcta	tgtgatgct aagacttta	360
ttgataaagc cagagtggag acacagaacc actggttcac ctacaatgag	acaatgacag tggagagtgt	420
gaccaagct gtgtccaatc tggctttgca gtttgagaa gaagatgcag	atccagggtc	480
catgtctcgt ccttttgag tagcattatt atttggagga gttgatgaga	aaggaccca	540
gctgtttcat atggacccat ctgggacctt tgtacagtgt gatgctcgag	caattggctc	600
tgcttcagag ggtgcccaga gctccttgca agaagtttac cacaagtcta	tgactttgaa	660
agaagccatc aagtcttcac tcatcatcct caaacaagta atggaggaga	agctgaatgc	720
aacaaacatt gagctagcca cagtgcagcc tggccagaat ttccacatgt	tcacaaagga	780
agaacttgaa gaggttatca aggacattta aggaatcctg atcctcagaa	cttctctggg	840
acaatttcag ttctaataat gtccttaa	attttcca gctcctgttc	900
cttggaat	cttggaat	900
ctccattgta tgtgcatttt ttaa	atgatg tctgtacata	960
aaggcagttc tgaaataa	ag	960
aaaattttta aataaaaaaa aaaaaaaa	aaaaaaa	1020
aaa		1023

<210> 4
 <211> 3309
 <212> DNA
 <213> Homo sapiens

<400> 4		
ttcagcccct ctcccgggct gcgcctccgc actccgggcc cgggcagaag	ggggtgcgcc	60
tcggccccac caccagga gcagccgagc tgaaaggccg ggaaccgcgg	cttgcgggga	120
ccacagctcc cgaaagcgac gttcggccac cggaggagcg ggagccaagc	aggcggagct	180
cggcgggaga ggtgcgggcc gaatccgagc cgagcggaga ggaatccggc	agtagagagc	240
ggactccagc cggcggaccc tgcagccctc gcctgggaca gcggcgcgct	gggcaggcgc	300

1209120

ccaagagagc	atcgagcagc	ggaacccgcg	aagccggccc	gcagccgcga	cccgcgcagc	360
ctgccgctct	cccgccgccg	gtccgggcag	catgaggcgc	gcggcgctct	ggctctggct	420
gtgcgcgctg	gcgctgagcc	tgcagccggc	cctgccgcaa	attgtggcta	ctaatttgcc	480
ccctgaagat	caagatggct	ctggggatga	ctctgacaac	ttctccggct	caggtgcagg	540
tgctttgcaa	gatatcacct	tgtcacagca	gacccccctc	acttggaagg	acacgcagct	600
cctgacggct	attcccacgt	ctccagaacc	caccggcctg	gaggctacag	ctgcctccac	660
ctccaccctg	ccggctggag	aggggcccac	ggagggagag	gctgtagtcc	tgccagaagt	720
ggagcctggc	ctcaccgccc	gggagcagga	ggccaccccc	cgacccaggg	agaccacaca	780
gctcccagac	actcatcagg	cctcaacgac	cacagccacc	acggcccagg	agcccgccac	840
ctccaccccc	cacagggaca	tgcagcctgg	ccaccatgag	acctcaaccc	ctgcaggacc	900
cagccaagct	gaccttcaca	ctccccacac	agaggatgga	ggtccttctg	ccaccgagag	960
ggctgctgag	gatggagcct	ccagtcagct	cccagcagca	gagggctctg	gggagcagga	1020
cttcaccttt	gaaacctcgg	gggagaatac	ggctgtagtg	gccgtggagc	ctgaccgccg	1080
gaaccagtcc	ccagtggatc	agggggccac	gggggcctca	cagggcctcc	tggacaggaa	1140
agaggtgctg	ggaggggtca	ttgccggagg	cctcgtgggg	ctcatctttg	ctgtgtgcct	1200
ggtgggtttc	atgctgtacc	gcatgaagaa	gaaggacgaa	ggcagctact	ccttggagga	1260
gccgaaacaa	gccaacggcg	gggcctacca	gaagcccacc	aaacaggagg	aattctatgc	1320
ctgacgcggg	agccatgcgc	cccctccgcc	ctgccactca	ctaggccccc	acttgcctct	1380
tccttgaaga	actgcaggcc	ctggcctccc	ctgccaccag	gccacctccc	cagcattcca	1440
gccccctctg	tcgctcctgc	ccacggagtc	gtgggggtgtg	ctgggagctc	cactctgctt	1500
ctctgacttc	tgcttgagga	cttagggcac	caggggtttc	tcgcatagga	cctttccacc	1560
acagccagca	cctggcatcg	caccattctg	actcggtttc	tccaaactga	agcagcctct	1620
ccccaggctc	agctctggag	gggaggggga	tccgactgct	ttggacctaa	atggcctcat	1680
gtggctggaa	gatcctgcgg	gtggggcctt	gggctcacac	acctgtagca	cttactggta	1740
ggaccaagca	tcttgggggg	gtggccgctg	agtggcaggg	gacaggagtc	cactttgttt	1800
cgtggggagg	tctaattctag	atatcgactt	gtttttgcac	atgtttcctc	tagttctttg	1860
ttcatagccc	agtagacctt	gttacttctg	aggtaagtta	agtaagttga	ttcggtatcc	1920
ccccatcttg	cttccctaata	ctatggtcgg	gagacagcat	cagggttaag	aagacttttt	1980
tttttttttt	ttaaaactagg	agaaccaaata	ctggaagcca	aaatgtaggc	ttagtttggtg	2040
tgttgtctct	tgagtttgct	gctcatgtgt	gcaacagggg	atggactatc	tgtctgggtg	2100
ccccgtttct	gggtggtctgt	tggcaggctg	gccagtcacg	gctgccgtgg	ggccgccgcc	2160
tctttcaagc	agtcgtgcct	gtgtccatgc	gctcagggcc	atgctgaggg	ctggggccgct	2220
gccacgttgg	agaagcccgt	gtgagaagtg	aatgctggga	ctcagccttc	agacagagag	2280
gactgtaggg	agggcggcag	gggcctggag	atcctcctgc	agaccacgcc	cgtcctgcct	2340

1209120

gtggcgccgt	ctccaggggc	tgcttcctcc	tggaattga	cgaggggtgt	cttgggcaga	2400
gctggctctg	agcgctcca	tccaaggcca	ggttctccgt	tagctcctgt	ggccccaccc	2460
tgggccctgg	gctggaatca	ggaatatatt	ccaaagagt	atagtctttt	gcttttggca	2520
aaactctact	taatccaatg	ggtttttccc	tgtacagtag	attttccaaa	tgtaataaac	2580
tttaataata	agtagtcctg	tgaatgccac	tgcttccgt	tcttgccctt	gtgctgtgtg	2640
tgacgtgacc	ggacttttct	gcaaacacca	acatgttggg	aaacttggct	cgaatctctg	2700
tgcttccgtc	tttcccatgg	ggagggattc	tggttccagg	gtccctctgt	gtatttgctt	2760
ttttgttttg	gctgaaattc	tcctggaggt	cggtaggttc	agccaagggt	ttataaggct	2820
gatgtcaatt	tctgtgttgc	caagctccaa	gccccatctt	ctaaatggca	aaggaagggt	2880
gatggcccca	gcacagcttg	acctgaggct	gtggtcacag	cggagggtgtg	gagccgaggg	2940
ctaccccgca	gacaccttgg	acatcctcct	cccacccggc	tgagagggcc	agaggccccc	3000
agcccagggc	tcctgcactt	acttgcttat	ttgacaacgt	ttcagcgact	ccgttggcca	3060
ctccgagagg	tgggccagtc	tgtggatcag	agatgcacca	ccaagccaag	ggaacctgtg	3120
tccggtattc	gatactgcga	ctttctgcct	ggagtgtatg	actgcacatg	actcgggggt	3180
ggggaaaggg	gtcggctgac	catgctcatc	tgtggtccg	tgggacggtg	cccaagccag	3240
aggctgggtt	catttgtgta	acgacaataa	acggtacttg	tcatttcggg	caaaaaaaaa	3300
aaaaaaaa						3309

<210> 5
 <211> 3217
 <212> DNA
 <213> Homo sapiens

<400> 5	
ggccgggaga	cctggcgagg
ctgggggtgg	ggggccagtt
tttgcaacgg	ctaaggaagg
	60
gcctgtgggt	ttattataag
gcggagctcg	gcgggagagg
tgcgggccga	atccgagccg
	120
agcggagagg	aatccggcag
tagagagcgg	actccagccg
gcggaccctg	cagccctcgc
	180
ctgggacagc	ggcgcgctgg
gcaggcgccc	aagagagcat
cgagcagcgg	aacccgcgaa
	240
gccggccccg	agccgcgacc
cgcgcagcct	gccgctctcc
cgccgcccgt	ccgggacagca
	300
tgaggcgcg	ggcgcctctg
ctctggctgt	gcgcgctggc
gctgagcctg	cagccggccc
	360
tgccgcaa	tgtggctact
aatttgcccc	ctgaagatca
agatggctct	ggggatgact
	420
ctgacaactt	ctccggctca
ggtgcagggt	ctttgcaaga
tatcaccttg	tcacagcaga
	480
ccccctccac	ttggaaggac
acgcagctcc	tgacggctat
tcccacgtct	ccagaaccca
	540
ccggcctgga	ggctacagct
gcctccacct	ccaccctgcc
ggctggagag	gggccaagg
	600
agggagaggc	tgtagtcctg
ccagaagtgg	agcctggcct
caccgcccgg	gagcaggagg
	660
ccaccccccg	acccagggag
accacacagc	tcccgaccac
tcatcaggcc	tcaacgacca
	720
cagccaccac	ggcccaggag
cccgccacct	cccaccccca
cagggacatg	cagcctggcc
	780
accatgagac	ctcaaccctt
gcaggaccca	gccaagctga
ccttcacact	ccccacacag
	840

1209120

aggatggagg	tccttctgcc	accgagaggg	ctgctgagga	tggagcctcc	agtcagctcc	900
cagcagcaga	gggctctggg	gagcaggact	tcacctttga	aacctcgggg	gagaatacgg	960
ctgtagtggc	cgtggagcct	gaccgccgga	accagtcccc	agtggatcag	ggggccacgg	1020
gggcctcaca	gggcctcctg	gacaggaaaag	aggtgctggg	aggggtcatt	gccggaggcc	1080
tcgtggggct	catctttgct	gtgtgcctgg	tgggtttcat	gctgtaccgc	atgaagaaga	1140
aggacgaagg	cagctactcc	ttggaggagc	cgaaacaagc	caacggcggg	gcctaccaga	1200
agcccaccaa	acaggaggaa	ttctatgcct	gacgcgggag	ccatgcgccc	cctccgccct	1260
gccactcact	aggccccac	ttgcctcttc	cttgaagaac	tgcaggccct	ggcctcccct	1320
gccaccaggc	cacctcccca	gcattccagc	ccctctggtc	gctcctgccc	acggagtcgt	1380
ggggtgtgct	gggagctcca	ctctgcttct	ctgacttctg	cctggagact	tagggcacca	1440
ggggtttctc	gcataggacc	tttccaccac	agccagcacc	tggcatcgca	ccattctgac	1500
tcggtttctc	caaactgaag	cagcctctcc	ccagggtccag	ctctggaggg	gagggggatc	1560
cgactgcttt	ggacctaaat	ggcctcatgt	ggctggaaga	tcctgcgggt	ggggcttggg	1620
gctcacacac	ctgtagcact	tactggtagg	accaagcatc	ttgggggggt	ggccgctgag	1680
tggcagggga	caggagtcca	ctttgtttcg	tggggagggtc	taatctagat	atcgacttgt	1740
ttttgcacat	gtttcctcta	gttctttggt	catagcccag	tagaccttgt	tacttctgag	1800
gtaagttaag	taagttgatt	cggtatcccc	ccatcttgct	tccctaattct	atggctcgga	1860
gacagcatca	gggttaagaa	gacttttttt	tttttttttt	aaactaggag	aaccaaattct	1920
ggaagccaaa	atgtaggctt	agtttgtgtg	ttgtctcttg	agtttgtcgc	tcatgtgtgc	1980
aacaggggat	ggactatctg	tctgggtggc	ccgtttctgg	tgggtctgtg	gcaggctggc	2040
cagtccaggc	tgccgtgggg	ccgccgcctc	tttcaagcag	tcgtgcctgt	gtccatgcgc	2100
tcagggccat	gctgaggcct	gggccgctgc	cacgttggag	aagcccgtgt	gagaagtga	2160
tgctgggact	cagccttcag	acagagagga	ctgtagggag	ggcggcaggg	gcctggagat	2220
cctcctgcag	accacgcccg	tcctgcctgt	ggcgccgtct	ccaggggctg	cttcctcctg	2280
gaaattgacg	aggggtgtct	tgggcagagc	tggctctgag	cgctccatc	caaggccagg	2340
ttctccgtta	gctcctgtgg	ccccaccctg	ggccctgggc	tggaatcagg	aatattttcc	2400
aaagagtgat	agtcttttgc	ttttggcaaa	actctactta	atccaatggg	ttttccctg	2460
tacagtagat	tttccaaatg	taataaaactt	taatataaag	tagtcctgtg	aatgccactg	2520
ccttcgcttc	ttgcctctgt	gctgtgtgtg	acgtgaccgg	acttttctgc	aaacaccaac	2580
atgttgggaa	acttggctcg	aatctctgtg	ccttcgtctt	tcccatgggg	agggattctg	2640
gttccagggt	ccctctgtgt	atttgctttt	ttgttttggc	tgaaattctc	ctggaggctg	2700
gtaggttcag	ccaaggtttt	ataaggctga	tgtcaatttc	tgtgttgcca	agctccaagc	2760
cccatcttct	aaatggcaaa	ggaagggtga	tggccccagc	acagcttgac	ctgaggctgt	2820
ggtcacagcg	gaggtgtgga	gccgaggcct	accccgcaga	caccttggac	atcctcctcc	2880

1209120

cacccggctg	cagaggccag	aggcccccag	cccagggctc	ctgcacttac	ttgcttattt	2940
gacaacgttt	cagcgactcc	gttggccact	ccgagagggtg	ggccagtctg	tggatcagag	3000
atgcaccacc	aagccaaggg	aacctgtgtc	cggtattcga	tactgcgact	ttctgcctgg	3060
agtgtatgac	tgcacatgac	tcgggggtgg	ggaaaggggt	cggctgacca	tgctcatctg	3120
ctggtccgtg	ggacggtgcc	caagccagag	gctgggttca	tttgtgtaac	gacaataaac	3180
ggtacttgtc	atttcgggca	aaaaaaaaaa	aaaaaaa			3217

<210> 6
 <211> 4369
 <212> DNA
 <213> Homo sapiens

<400> 6	
gtcccaggcg	gttccgctca acagacgctg ctgtggctgc gccgggctgc gacactgcag 60
ttgtctacgc	ggccggggcc gggacgagga ggcgttggac ggggtcgcac acgttcgtcc 120
cctcgcattg	cggccccgac agctgcgcca ggatccccgg gcggcggcgc ggggcgtgaa 180
cgctctgggg	ctcagccagg cctgcgcggg cccgaggccg gaggaacccg gactccggcg 240
tagcggtttt	gacacaaggg cgcatatctt caaagcacct agtacctcct accattgtca 300
actgatacag	aattcgttgt tgggaaggac tggggaaaca gctgtaacat ttgccaccct 360
cagaagctgc	tggtcctgtg tcacaccacc ttagcctctt gatcgaggaa gattctcgct 420
gaagtctgtt	aattctactt tttgagtact tatgaataac cacgtgtctt caaaaccatc 480
taccatgaag	ctaaaacata ccatcaaccc tattctttta tattttatac attttctaata 540
atcactttat	actattttaa catacattcc gttttatttt ttctccgagt caagacaaga 600
aaaatcaaac	cgaattaaag caaagcctgt aaattcaaaa cctgattctg catacagatc 660
tgtaataagt	ttggatgggt tggcttcagt attataccct ggatgtgata cttagataa 720
agtttttaca	tatgcaaaaa acaaatttaa gaacaaaaga ctcttgggaa cacgtgaagt 780
tttaaatgag	gaagatgaag tacaacaaa tggaaaaatt tttaaaaagg ttattcttgg 840
acagtataat	tggctttcct atgaagatgt ctttgttcga gcctttaatt ttggaaatgg 900
attacagatg	ttgggtcaga aaccaaagac caacatcgcc atcttctgtg agaccagggc 960
cgagtggatg	atagctgcac aggcgtgttt tatgtataat tttcagcttg ttacattata 1020
tgccactcta	ggagggtccag ccattgttca tgcattaaat gaaacagagg tgaccaacat 1080
cattactagt	aaagaactct tacaacaaa gttgaaggat atagtttctt tgggtcccacg 1140
cctgcggcac	atcatcactg ttgatggaaa gccaccgacc tgggtccgagt tccccaaggg 1200
catcattgtg	cataccatgg ctgcagtgga ggccctggga gccaaggcca gcatggaaaa 1260
ccaacctcat	agcaaaccat tgccctcaga tattgcagta atcatgtaca caagtggatc 1320
cacaggactt	ccaaagggag tcatgatctc acatagtaac attattgctg gtataactgg 1380
gatggcagaa	aggattccag aactaggaga ggaagatgtc tacattggat atttgcctct 1440

1209120

ggcccatggt	ctagaattaa	gtgctgagct	tgtctgtctt	tctcacggat	gccgcattgg	1500
ttactcttca	ccacagactt	tagcagatca	gtcttcaaaa	attaaaaaag	gaagcaaagg	1560
ggatacatcc	atgttgaaac	caacactgat	ggcagcagtt	ccggaaatca	tggatcggat	1620
ctacaaaaat	gtcatgaata	aagtcagtga	aatgagtagt	tttcaacgta	atctgtttat	1680
tctggcctat	aattacaaaa	tggaacagat	ttcaaaagga	cgtaatactc	cactgtgcga	1740
cagctttggt	ttccggaaag	ttcgaagctt	gctaggggga	aatattcgtc	tcctgttgtg	1800
tgggtggcgt	ccactttctg	caaccacgca	gcgattcatg	aacatctgtt	tctgctgtcc	1860
tgttggtcag	ggatacgggc	tactgaatc	tgtgggggct	ggaacaattt	ccgaagtgtg	1920
ggactacaat	actggcagag	tgggagcacc	attagtttgc	tgtgaaatca	aattaaaaaa	1980
ctgggaggaa	ggtggatact	ttaatactga	taagccacac	cccaggggtg	aaattcttat	2040
tgggggccaa	agtgtgacaa	tggggtacta	caaaaatgaa	gcaaaaacaa	aagctgattt	2100
ctttgaagat	gaaaatggac	aaagggtggct	ctgtactggg	gatattggag	agtttgaacc	2160
cgatggatgc	ttaaagatta	ttgatcgtaa	aaaggacctt	gtaaaactac	aggcagggga	2220
atatgtttct	cttgggaaag	tagaggcagc	tttgaagaat	cttccactag	tagataacat	2280
ttgtgcatat	gcaaacagtt	atcattctta	tgtcattgga	tttgttgtgc	caaatcaaaa	2340
ggaactaact	gaactagctc	gaaagaaagg	acttaaaggg	acttgggagg	agctgtgtaa	2400
cagtttgtga	atggaaaatg	aggtacttaa	agtgtcttcc	gaagctgcta	tttcagcaag	2460
tctggaaaag	tttgaaattc	cagtaaaaat	tcgtttgagt	cctgaaccgt	ggacccctga	2520
aactggtctg	gtgacagatg	ccttcaagct	gaaacgcaaa	gagcttaaaa	cacattacca	2580
ggcggacatt	gagcgaatgt	atggaagaaa	ataattattc	tcttctggca	tcagtttgct	2640
acagtgagct	cagatcaaat	aggaaaatac	ttgaaatgca	tgtctcaagc	tgcaaggcaa	2700
actccattcc	tcatattaaa	ctattacttc	tcatgacgtc	accattttta	actgacagga	2760
ttagtaaaac	attaagacag	caaacttggt	tctgtctctt	ctttcatttt	ccccgccacc	2820
aacttacttt	accacctatg	actgtacttg	tcagtatgag	aatttttctg	aatcatattg	2880
gggaagcagt	gatttttaaaa	cctcaagttt	ttaaacatga	tttatatggt	ctgtataatg	2940
ttcagtttgt	aactttttta	aagtttggtg	gtatagaggg	ataaatagga	aatataagaa	3000
ttggttat	gggggctttt	ttacttactg	tatttaaaaa	tacaagggtg	ttgatatgaa	3060
attatgtaaa	tttcaaatgc	ttatgaatca	aatcattggt	gaacaaaaga	tttgttgctg	3120
tgtaattatt	gtcttgatg	catttgagag	aaataaatat	accatactt	atgttttaag	3180
aagttgagat	cttgtgaata	tatgcctgtc	agtgtcttct	ttatatattt	attttttatt	3240
agaaaaaatg	aagtttggtt	ggtgatgcat	gaaacaaaat	agcaagagag	ggttatagtt	3300
taatagtaag	ggagataaca	cagcatgtgt	agcaccagtt	gataattggt	ctctagtagc	3360
ttactgtcaa	aatgttcaat	gaagtcttct	gttcatctgt	tgaaactagg	aaaataccca	3420
aacttaaatg	gaagaattct	gaaagagagg	atagaattta	aagaacaaga	gtatataaag	3480

1209120

ttattctttg aatatttcgt tgactatatg tacattgagt tatctatatt tgtaaacaaa	3540
ttagtcatgg aaaattattc tatctcaaag tctcctttta gtctagataa tcattatttc	3600
attttaaaat tagtgttttt cctagtttgc actgatgcgt gtatggatgt gtgtgagtca	3660
gtggtagctt atttaaaaag caccttatcc tttctcccat aacctttgta cactaaaaaa	3720
tgaaagaatt tagaatgtat ttgatgatag cattctcact aagacacatg agaatttaac	3780
tttataaccg cgtgagttaa gatttaattc ataggttttg atgtcattgt tgaagttatt	3840
tgtaattcag aaaccttgct tgtgtgatac atagtctctt catttattac tgcttgtctg	3900
ttgttatatc tggattatca aaagcaatag tgcaccaatt aagatgtgct caaatcagga	3960
cttaaatcat aggaccaca tttttcatgt cagactagtt actttgttga ttctcagtta	4020
ctgtaggcac caaaaggcaa aaatcaaaaa aaaaaaaaaac aaaaacaaaa aaaaagatga	4080
acctaggtct gtgtaaagta aggggagtgtag taggagcagc caggactgtg tagtgtgtgt	4140
ttggttgcat cacaaacatc gtatgtggag acattgcaat acagtgtttt ttgttttcaa	4200
cttttcttgt attgtatatt tgtattatgt tttgaatgct tttctctttt cataattaaa	4260
tattaatggt tgggataact gccaagaaga agtaaaaaata ttgaatggaa cttctatatg	4320
aggatgctgt gatctaaaaa ttaaatctca gtgggaggag aaaaaaaaaa	4369

<210> 7
 <211> 4262
 <212> DNA
 <213> Homo sapiens

<400> 7

gtcccaggcg gttccgctca acagacgctg ctgtggctgc gccgggctgc gacactgcag	60
ttgtctacgc ggccggggcc gggacgagga ggcgttggac ggggtcgcac acgttcgtcc	120
cctcgcattg cggccccgac agctgcgcca ggatccccgg gcggcgggcg ggggcgtgaa	180
cgctctgggg ctgagccagg cctgcgcggg cccgaggccg gaggaacccg gactccggcg	240
tagcggtttt gacacaaggg cgcataatctt caaagcacct agtacctcct accattgtca	300
actgattctc gctgaagtct gttaattcta ctttttgagt acttatgaat aaccacgtgt	360
cttcaaaacc atctaccatg aagctaaaac ataccatcaa ccctattctt ttatatttta	420
tacattttct aatatcactt tatactattt taacatacat tccgttttat tttttctccg	480
agtcaagaca agaaaaatca aaccgaatta aagcaaagcc tgtaaattca aaacctgatt	540
ctgcatacag atctgttaat agtttggatg gtttggcttc agtattatac cctggatgtg	600
atactttaga taaagttttt acatatgcaa aaaacaaatt taagaacaaa agactcttgg	660
gaacacgtga agtttttaaat gaggaagatg aagtacaacc aaatggaaaa atttttaaaa	720
aggttattct tggacagtat aattggcttt cctatgaaga tgtctttgtt cgagccttta	780
attttggaaa tggattacag atgttgggtc agaaacaaa gaccaacatc gccatcttct	840
gtgagaccag ggccgagtggt atgatagctg cacaggcgtg ttttatgtat aattttcagc	900
ttgttacatt atatgccact ctaggaggtc cagccattgt tcatgcatta aatgaaacag	960

1209120

aggtgaccaa	catcattact	agtaaagaac	tcttacaaac	aaagttgaag	gatatagttt	1020
ctttggtccc	acgcctgcgg	cacatcatca	ctgttgatgg	aaagccaccg	acctggtccg	1080
agttcccca	gggcatcatt	gtgcatacca	tggctgcagt	ggaggccctg	ggagccaagg	1140
ccagcatgga	aaaccaacct	catagcaaac	cattgccctc	agatattgca	gtaatcatgt	1200
acacaagtgg	atccacagga	cttccaaagg	gagtcatgat	ctcacatagt	aacattattg	1260
ctggtataac	tgggatggca	gaaaggattc	cagaactagg	agaggaagat	gtctacattg	1320
gatatttgcc	tctggcccat	gttctagaat	taagtgtcga	gcttgtctgt	ctttctcacg	1380
gatgccgcat	tggttactct	tcaccacaga	ctttagcaga	tcagtcttca	aaaattaaaa	1440
aaggaagcaa	aggggataca	tccatgttga	aaccaacact	gatggcagca	gttccgga	1500
tcatggatcg	gatctacaaa	aatgtcatga	ataaagtcag	tgaaatgagt	agttttcaac	1560
gtaatctgtt	tattctggcc	tataattaca	aaatggaaca	gatttcaaaa	ggacgtaata	1620
ctccactgtg	cgacagcttt	gttttccgga	aagttcgaag	cttgctaggg	ggaaatattc	1680
gtctcctgtt	gtgtggtggc	gctccacttt	ctgcaaccac	gcagcgattc	atgaacatct	1740
gtttctgctg	tcctgttggg	cagggatacg	ggctcactga	atctgctggg	gctggaacaa	1800
tttccgaagt	gtgggactac	aatactggca	gagtgggagc	accattagtt	tgctgtgaaa	1860
tcaaattaaa	aaactgggag	gaagggtgat	actttaatac	tgataagcca	cacccaggg	1920
gtgaaattct	tattgggggc	caaagtgtga	caatggggta	ctacaaaaat	gaagcaaaaa	1980
caaaagctga	tttctttgaa	gatgaaaatg	gacaaagggtg	gctctgtact	ggggatattg	2040
gagagtttga	acccgatgga	tgcttaaaga	ttattgatcg	taaaaaggac	cttgtaaaac	2100
tacaggcagg	ggaatatgtt	tctcttgggg	aagtagaggc	agctttgaag	aatcttccac	2160
tagtagataa	catttggtgca	tatgcaaaca	gttatcattc	ttatgtcatt	ggatttggtg	2220
tgccaaatca	aaaggaacta	actgaactag	ctcgaaagaa	aggacttaaa	gggacttggg	2280
aggagctgtg	taacagttgt	gaaatggaaa	atgagggtact	taaagtgtt	tccgaagctg	2340
ctatttcagc	aagtctggaa	aagtttgaaa	ttccagtaaa	aattcgtttg	agtcctgaac	2400
cgtggacccc	tgaaactggg	ctggtgacag	atgccttcaa	gctgaaacgc	aaagagctta	2460
aaacacatta	ccaggcggac	attgagcgaa	tgtatggaag	aaaataatta	ttctcttctg	2520
gcatcagttt	gctacagtga	gctcagatca	aataggaaaa	tacttgaaat	gcatgtctca	2580
agctgcaagg	caaactccat	tcctcatatt	aaactattac	ttctcatgac	gtcaccattt	2640
ttaactgaca	ggattagtaa	aacattaaga	cagcaaaactt	gtgtctgtct	cttctttcat	2700
tttccccgcc	accaacttac	tttaccacct	atgactgtac	ttgtcagtat	gagaattttt	2760
ctgaatcata	ttggggaagc	agtgatttta	aaacctcaag	tttttaacaa	tgatttatat	2820
gttctgtata	atgttcagtt	tgtaaactttt	taaaagtttg	gatgtataga	gggataaata	2880
ggaaatataa	gaattgggta	tttgggggct	tttttactta	ctgtatttaa	aaatacaagg	2940
gtattgatat	gaaattatgt	aaatttcaaa	tgcttatgaa	tcaaatcatt	gttgaacaaa	3000

1209120

agatttgttg	ctgtgtaatt	attgtcttgt	atgcatttga	gagaaataaa	tatacccata	3060
cttatgtttt	aagaagttga	gatcttgtga	atatatgcct	gtcagtgtct	tctttatata	3120
tttatttttt	attagaaaaa	atgaagtttg	gttggtgatg	catgaaacaa	aatagcaaga	3180
gagggttata	gtttaatagt	aaggagata	acacagcatg	tgtagcacca	gttgataatt	3240
ggctcttagt	agcttactgt	caaaatgttc	aatgaagtct	tctgttcac	tgttgaaact	3300
aggaaaatac	ccaaacttaa	atggaagaat	tctgaaagag	aggatagaat	ttaaagaaca	3360
agagtatata	aagttattct	ttgaatattt	cggtgactat	atgtacattg	agttatctat	3420
atttgtaaac	aaattagtca	tggaaaatta	ttctatctca	aagtctcctt	ttagtctaga	3480
taatcattat	ttcattttta	aattagtgtt	tttcctagt	tgcactgatg	cggtgatgga	3540
tgtgtgtgag	tcagtggtag	cttattttaa	aagcacctta	tcctttctcc	cataaccttt	3600
gtacactaaa	aaatgaaaga	atttagaatg	tatttgatga	tagcattctc	actaagacac	3660
atgagaattt	aactttataa	ccgcgtgagt	taagatttaa	ttcatagggt	ttgatgtcat	3720
tgttgaagtt	atttgtaatt	cagaaacctt	gcttgtgtga	tacatagtct	cttcatttat	3780
tactgcttgt	ctgttggtat	atctggatta	tcaaaagcaa	tagtgcacca	attaagatgt	3840
gctcaaatca	ggacttaaat	cataggcacc	acatttttca	tgtcagacta	gttactttgt	3900
tgattctcag	ttactgtagg	catcaaaagg	caaaaatcaa	aaaaaaaaaa	aacaaaaaca	3960
aaaaaaaaaga	tgaacctagg	tctgtgtaaa	gtaaggggag	tgtaggagc	agccaggact	4020
gtgtagtggt	tggttggttg	catcacaac	atcgtatgtg	gagacattgc	aatacagtgt	4080
tttttgtttt	caacttttct	tgtattgtat	atttgtatta	tggtttgaat	gcttttctct	4140
tttcataatt	aaatattaat	gtttgggata	actgccaaga	agaagtaaaa	atattgaatg	4200
gaacttctat	atgaggatgc	tgtgatctaa	aaattaaatc	tcagtgggag	gagaaaaaaa	4260
aa						4262

<210> 8
 <211> 1906
 <212> DNA
 <213> Homo sapiens

<400> 8						
ggcgccgccc	ccgctcccga	ggccccctgcc	gccgccgctc	ccgctgctgt	cgccgcgcag	60
agccggagca	ggagccacgg	ccgagaggag	ggaggaggag	gaggaggagg	tggaggagggt	120
ggaggagggtg	gaggaggcgc	cggaccgggg	gggatagatt	cccagaagtg	ggataactgg	180
atcagagggtg	gattaccctg	tgtataagag	tatgtgtctc	actgcacctt	caatggcatt	240
gagtagatcg	tcagtattta	aacagatcac	atcatgcgtg	agtacaagct	agtggtcctt	300
ggttcaggag	gcgttgggaa	gtctgctctg	acagttcagt	ttgttcaggg	aatttttgtt	360
gaaaaatatg	accaacgat	agaagattcc	tacagaaagc	aagttgaagt	cgattgccaa	420
cagtgtatgc	tcgaaatcct	ggatactgca	gggacagagc	aatttacagc	aatgagggat	480

1209120

ttgtatatga	agaacggcca	aggttttgca	ctagtatatatt	ctattacagc	tcagtccacg	540
tttaacgact	tacaggacct	gaggggaacag	atttttacggg	ttaaggacac	ggaagatggt	600
ccaatgattt	tggtttgcaa	taaatgtgac	ctggaagatg	agcgagtagt	tggcaaagag	660
cagggccaga	atttagcaag	acagtgggtgt	aactgtgcct	ttttagaatc	ttctgcaaag	720
tcaaagatca	atgttaatga	gatattttat	gacctggtca	gacagataaa	taggaaaaca	780
ccagtggaaa	agaagaagcc	taaaaagaaa	tcatgtctgc	tgctctaggc	ccatagtcag	840
cagcagctct	gagccagatt	acaggaatga	agaactgttg	cctaattgga	aagtgccagc	900
attccagact	tcaaaaataa	aaaatctgaa	gaggcttctc	ctgttttata	tattatgtga	960
agaatttaga	tcttatattg	gtttgcacaa	gttccctgga	gaaaaaaatt	gctctgtgta	1020
tatctcttgg	aaaataagac	aatagtatct	ctcctttgca	atagcagtta	taacagatgt	1080
gaaaatatac	ttgactctaa	tatgattata	caaaagagca	tgatgcatt	tcaaatgtta	1140
gatattgcta	ctataatcaa	atgatttcat	attgatcttt	ttatcatgat	cctccctatc	1200
aagcactaaa	aagttgaacc	attatacttt	atatctgtaa	tgatactgat	tatgaaatgt	1260
cccccaaac	tcattgcagc	agataacttt	tttgagtcac	tgacttcatt	ttatatttaa	1320
aaaattatgg	aatatcatct	gtcattatat	tctaattaaa	attgtgcata	atgctttgga	1380
aaaatgggtc	ttttatagga	aaaaaactgg	gataactgat	ttctatggct	ttcaaagcta	1440
aaatatataa	tataactaac	caactctaata	attgcttctt	gtgttttact	gtcagattaa	1500
attacagctt	ttatggatga	ttaaatttta	gtacattttc	atttggtttg	tgtgtttttg	1560
ttattgttta	tagattaaag	cgtttatctt	ataatgacca	cattgtttta	aatgcgacag	1620
tagctccttt	ctgcctagta	tctgcagaac	actggcttta	aactatacta	agtaactggt	1680
gatttctcta	ggaacagacc	tcgcactttc	tgttctaaat	atattttattc	ctactataca	1740
gtaaaatata	tcagacaaca	tagaatagtt	ttgtatatct	tctcttgatc	ttaaagattg	1800
tatcttattg	aatatccac	tgtatattat	ttttatatgt	aaaaagataa	gtttaatact	1860
gtatcagggg	ttaactttta	ctatttcaga	tcttccacag	cttgta		1906

<210> 9
 <211> 1812
 <212> DNA
 <213> Homo sapiens

<400> 9
 ggccgcccga ccgctcccga ggccccctgcc gccgccgctc ccgctgctgt cgccgcgagcag 60
 agccggagca ggagccacgg ccgagaggag ggaggaggag gaggaggagg tggaggagggt 120
 ggaggagggtg gaggaggcgc cggaccgggg ggatcgtcag tatttaaaaca gatcacatca 180
 tgcgtgagta caagctagtg gtccttggtt caggaggcgt tgggaagtct gctctgacag 240
 ttcagtttgt tcagggaatt tttgttgaaa aatatgaccc aacgatagaa gattcctaca 300
 gaaagcaagt tgaagtcgat tgccaacagt gtatgctcga aatcctggat actgcaggga 360
 cagagcaatt tacagcaatg agggatttgt atatgaagaa cgccaagggt tttgcactag 420

1209120

tatatttctat tacagctcag tccacgttta acgacttaca ggacctgagg gaacagattt	480
tacgggttaa ggacacggaa gatgttccaa tgattttggt tggcaataaa tgtgacctgg	540
aagatgagcg agtagttggc aaagagcagg gccagaattt agcaagacag tgggtgtaact	600
gtgccttttt agaatcttct gcaaagtcaa agatcaatgt taatgagata ttttatgacc	660
tggtcagaca gataaatagg aaaacaccag tggaaaagaa gaagcctaaa aagaaatcat	720
gtctgtgct ctaggcccac agtcagcagc agctctgagc cagattacag gaatgaagaa	780
ctgttgccca attggaaagt gccagcattc cagacttcaa aaataaaaaa tctgaagagg	840
cttctcctgt tttatatatt atgtgaagaa tttagatctt atattggttt gcacaagttc	900
cctggagaaa aaaattgctc tgtgtatatc tcttgaaaa taagacaata gtatttctcc	960
tttgcaatag cagttataac agatgtgaaa atatacttga ctctaatatg attatacaaa	1020
agagcatgga tgcatttcaa atgttagata ttgctactat aatcaaatga tttcatattg	1080
atctttttat catgatcctc cctatcaagc actaaaaagt tgaaccatta tactttatat	1140
ctgtaatgat actgattatg aaatgtcccc tcaaactcat tgcagcagat aacttttttg	1200
agtcattgac ttcattttat atttaaaaaa ttatggaata tcatctgtca ttatatctta	1260
attaaaattg tgcataatgc tttggaaaaa tgggtctttt ataggaaaaa aactgggata	1320
actgatttct atggctttca aagctaaaat atataatata ctaaaccaac tctaattatg	1380
cttcttgtgt tttactgtca gattaaatta cagcttttat ggatgattaa atttttagtac	1440
attttcattt ggtttgtgtg tttttgttat tgtttataga tttaaagcgtt tattttataa	1500
tgaccacatt gttttaaatg cgacagtagc tcctttctgc ctagtatctg cagaacactg	1560
gctttaaact atactaagta actggtgatt tctctaggaa cagacctcgc actttctgtt	1620
ctaaatatat ttattcctac tatacagtaa aatacatcag acaacataga atagttttgt	1680
atatttcttc ttgatcttaa agattgtatc ttattgaata tcccactgta tattattttt	1740
atatgtaaaa agataagttt aatactgtat cagggtttta cttttactat ttcagatctt	1800
ccacagcttg ta	1812

<210> 10
 <211> 3915
 <212> DNA
 <213> Homo sapiens

<400> 10	
gtgggggtggg gtggggctgg gggcttgtcg ccctttcagg ctccaccctt tgcggagatt	60
ataaatagtc atgatcccag cgagaccacag agatgcctgt aatggtgaga ctttggatcc	120
ttcctgagga cgtggagaaa actttctgct gagaaggaca ttttgaagggt tttgttggct	180
gaaaaagctg tttctggaat cacccttaga tctttcttga agacttgaat tagattacag	240
cgatggggac acagaaggct accccagctc tgatatttgc catcacagtt gctacaatcg	300
gctctttcca atttggttac aacactgggg tcatcaatgc tcctgagaag atcataaagg	360

1209120

aatttatcaa	taaaactttg	acggacaagg	gaaatgcccc	accctctgag	gtgctgctca	420
cgtctctctg	gtccttgctt	gtggccatat	tttccgctcg	gggtatgatc	ggctcctttt	480
ccgtcggact	cttcgtcaac	cgctttggca	ggcgcaattc	aatgctgatt	gtcaacctgt	540
tggctgtcac	tgggtggctgc	tttatgggac	tgtgtaaagt	agctaagtcg	gttgaaatgc	600
tgatcctggg	tcgcttggtt	attggcctct	tctgcggact	ctgcacaggt	tttgtgcccc	660
tgtacattgg	agagatctcg	cctactgccc	tgcggggtgc	ctttggcact	ctcaaccagc	720
tgggcatcgt	tgttgggaatt	ctggtggccc	agatctttgg	tctggaattc	atccttgggt	780
ctgaagagct	atggccgctg	ctactgggtt	ttaccatcct	tcctgctatc	ctacaaagtg	840
cagcccttcc	attttgccct	gaaagtccca	gatttttgct	cattaacaga	aaagaagagg	900
agaatgctaa	gcagatcctc	cagcggttgt	ggggcaccca	ggatgtatcc	caagacatcc	960
aggagatgaa	agatgagagt	gcaaggatgt	cacaagaaaa	gcaagtcacc	gtgctagagc	1020
tcttttagagt	gtccagctac	cgacagccca	tcatcatttc	cattgtgctc	cagctctctc	1080
agcagctctc	tgggatcaat	gctgtgttct	attactcaac	aggaatcttc	aaggatgcag	1140
gtgttcaaga	gcccattctat	gccaccatcg	gcgcgggtgt	ggtaataact	atcttcaactg	1200
tagtttctct	atcttctggtg	gaaagggcag	gaagaaggac	tctgcatatg	ataggccttg	1260
gagggatggc	tttttgttcc	acgctcatga	ctgtttcttt	gttattaaag	gataactata	1320
atgggatgag	ctttgtctgt	attggggcta	tcttggctct	tgtagccttc	tttgaaattg	1380
gaccaggccc	cattccctgg	tttattgtgg	ccgaactctt	cagccagggc	ccccgccag	1440
ctgcgatggc	agtggccggc	tgctccaact	ggacctccaa	cttcctagtc	ggattgctct	1500
tccccctccg	tgctcactat	ttagggagcct	acgtttttat	tatcttcacc	ggcttcctca	1560
ttaccttctt	ggctttttacc	ttcttcaaag	tccctgagac	ccgtggcagg	acttttgagg	1620
atatcacacg	ggcctttgaa	gggcaggcac	acggtgcaga	tagatctgga	aaggacggcg	1680
tcatggagat	gaacagcatc	gagcctgcta	aggagaccac	caccaatgtc	taagtcgtgc	1740
ctccttccac	ctccctcccc	gcatgggaaa	gccacctctc	cctcaacaag	ggagagacct	1800
catcaggatg	aaccacaggac	gcttctgaat	gctgctactt	aattcctttc	tcatcccacg	1860
cactccatga	gcaccccaag	gctgcggttt	gttggtatctt	caatggcttt	ttaaatttta	1920
tttcctggac	atcctcttct	gcttaggaga	gaccgagtga	acctaccttc	atttcaggag	1980
ggattggccg	cttggcacat	gacaactttg	ccagctttttc	ctcccttggg	ttctgatatt	2040
gccgcactag	gggatatagg	agaggaaaag	taagggtgcag	ttcccccaac	ctcagactta	2100
ccaggaagca	gatacatatg	agtgtggaag	ccggaggggtg	tttatgtaag	agcaccttcc	2160
tcacttccat	acagctctac	gtggcaaat	aacttgagtt	ttattttattt	tatcctctgg	2220
tttaattaca	taattttttt	ttttttactt	taagtttcag	gatacatgtg	ccgaatgtgc	2280
aggtttgtta	cataggtata	tatatgccat	gatggaaata	tttatttttt	taagcgtaat	2340
tttgccaaat	aataaaaaca	gaaggaaatt	gagattagag	ggaggtgttt	aaagagaggt	2400

1209120

tatagagtag aagatttgat gctggagagg ttaagggtgca ataagaat	2460
tttgggagaaat gttgttcatt attggaggggt aaatgatgtg gtgcctgagg tctgtacgtt acctcttaac	2520
aatttctgtc cttcagatgg aaactcttta acttctcgta aaagtcatat acctatataa	2580
taaagctact gatttccttg gagctttttt ctttaagata atagtttaca tgtagtagta	2640
cttgaaatct aggattatta actaatatgg gcattgtagt taatgatggg tgatggggttc	2700
taattttgga tggagtcag ggaagagaaa gtgatttcta gaaagcctgt tcccctcact	2760
ggatgaaata actccttctt gtagtagtct cttactttt gaagtaatcc cgccacctat	2820
ctcgtgggag agccatccaa ataagaaacc taaaataatt gggtcttggt agagattcat	2880
tatttttcca ctttgttctt taggagattt taggtgttga ttttctgttg tattttaact	2940
cataccttta aaggaattcc ccaaagaatg tttatagcaa acttggaatt tgtaacctca	3000
gctctgggag aggatttttt tctgagcgat tattatctaa agtgtgttgt tgctttaggc	3060
tcacggcacg cttgcgtatg tctgttacca tgtcactgtg gtcctatgcc gaatgccctc	3120
aggggacttg aatctttcca ataaaccagg tttagacagt atgagtcaat gtgcagtgtg	3180
gcccacactt gagaggatga atgtatgtgc actgtcactt tgctctgggt ggaagtacgt	3240
tattgttgac ttattttctc tgtgtttgtt cctacagccc ctttttcata tgttgctcag	3300
tctccctttc ctttcttggg gcttacacat ctcagaccct ttagccaaac cttgtcagt	3360
gacagtattt tggttcttag ttctcactgt tccctctgct cctggagcct ttgaataaaa	3420
atgcacgtag ctgaggccgg atgcggtggc tcacgcctgt aatcccagca ctttgggagg	3480
cctaggcggg cggtcagggg ttcgagacca gtctggccaa catcgtgaaa ccctgtctct	3540
actaaaaatg caaaaattag ccgggcgtgg tggcgggcgc ctgtaatccc agctacttgg	3600
gaagctgagg cgggagaatc atgtgaaccc gggacgcagg ggttgcagtg agcggagatc	3660
gcatcattgc actctagcct gggccacagg gcgagactcc gtctcaaaaa aaaaaaatg	3720
cacatagcta tcgagtgtgc tttagcttga aaaggtgacc ttgcaacttc atgtcaactt	3780
tctggctcct caaacagtag gttggcagta aggcagggtc ccatttctca ctgagaagat	3840
tgtgaatatt tccatatgga ttttctattg ttactctggt tctttgtttt aaaataaaaa	3900
ttctgaatgt acacg	3915

<210> 11
 <211> 2410
 <212> DNA
 <213> Homo sapiens

<400> 11
 gtccttttcc tcctgtcctt tgccagcgtt gggccggacc gggccgagcc gggccgcccg 60
 ggcgcagtct ttaacatagg cgtccctctt caagaagaaa accgtggatg atgtaataaa 120
 ggaacagaat cgagagttac gaggtacaca gagggctata atcagagatc gagcagcttt 180
 agagaaacaa gaaaaacagc tggaattaga aattaagaaa atggccaaga ttggtaataa 240
 ggaagcttgc aaagttttag ccaaacaact tgtgcatcta cggaacaga agacgagaac 300

1209120

ttttgctgta agttcaaaag ttactttctat gtctacacaa acaaaagtga tgaattccca	360
aatgaagatg gctggagcaa tgtctaccac agcaaaaaca atgcaggcag ttaacaagaa	420
gatggatcca caaaagacat tacaacaat gcagaatttc cagaaggaaa acatgaaaat	480
ggaaatgact gaagaaatga tcaatgatac acttgatgac atctttgacg gttctgatga	540
cgaagaagaa agccaggata ttgtgaatca agttcttgat gaaattggaa ttgaaatttc	600
tggaagatg gccaaagctc catcagctgc tcgaagctta ccatctgcct ctacttcaaa	660
ggctacaatc tcagatgaag agattgaacg gcaactcaag gctttaggag tagattagtc	720
aaaagaagtc atactatfff gcttacttat aattatgtag tataaaccaa gcacagtgc	780
gatttctfff acaaaacaca tgtatfffgc aaaaaaaaaa aaaatgaaga ccatgagtga	840
acagttgfff cctaaccat ggctatttag aatcttttgc caaagaatga caatgatgca	900
aaaatgggaa cagtttgat ttttaattaga actgtttagg agtgatgatg tgtaaaaagt	960
tgacttctct tttgcatggc acagagaaat tatattcctt acttcatgtc agtttatgtt	1020
ctaaatcttt ttcactgaat ataaaaatct tgttaaatgc cattaggcac caacttaaag	1080
agggttgtaa aaatatataa agtatatcgt taattctgta tctgttgctt gtcttttgta	1140
agtgattatg tgttatgacc ataggtgggt acagctgcca aattatffff aaatgggtcaa	1200
aaagaagagt gctatftaaa catctgtctt aaacaaaaac tgtcataact tttctfffft	1260
ctttttccat taggagaaca ttctagttgg taaatttcaa aatgtgcttg acacctgcct	1320
taaatagcac agacctattg tgcacatctt taaattatft cagctggcag aaaagaatta	1380
catttaaaac tgaaatcaag gcctcaatac aaagattatc ctggctcttt tctatctctg	1440
tgggccta at tgaaatatgt actcttattt tagacacgcc tctgttaaaa cagaccaggt	1500
tttcttggtc tcagacctat gatgacttgt ccctttgatg tcactactgt gaattgaata	1560
taattagtaa aaatagacga tgaataaata acactttata gtaagaaaac aatataffff	1620
ggccatctaa aaatgagaat tataattata tgaattataa tttaaactgt ttaattttgt	1680
ttaatgtgta tattgaatct tccaaattga agccattatt ctcaattaag tactacaact	1740
atgacaatgc ttgacctaca tttctaaaaat aaaaattcac attttttgat aaataaacta	1800
cagttttacc agaaattact atctaaatgt gtattagcag tattttttaa ggtgaaattg	1860
ccttggtatc taatgaatgt gtagacaggg agataaaatg aaggattgcc agactagtta	1920
gaatagaatt taggattagg ttagtfttga aaaatgatgt tgtaatatat gggttctaac	1980
acatcctacc ataaaaactg gaggagatat gtgtaacctg gtttaatttg gatggtggac	2040
atftttgggt aatactgaca aaatacatct taggactagt atacatgtga cacggattgc	2100
taggaggaat gaaaaactaa actgtatagt ttatatccg taaaccattt tataatgttc	2160
aaagattagg ttttgttatt gatagtatta aatacacagt ttctcttaac agtgatgggt	2220
gaaaacattt taccggatta tggaatgttt accagaacat gttttgattc ttgaatgtac	2280
ataataatgc catctaactt atttacattc ttgtttacat gtgggagctt ttgttttcaa	2340

1209120

aaattatattt gttaaaaaat ctcaataaag atttattatt gttgttcttt tcttaaaaaa 2400
 aaaaaaaaaa 2410

<210> 12
 <211> 2718
 <212> DNA
 <213> Homo sapiens

<400> 12
 gggctcgagg cgttcggctg aggaagggag cgcacgccgg cggcgcggag gccggctctg 60
 cgcttcgggc cgccccctcc cccacccccg ctcacacccg gcacttactt cggctgtctc 120
 cgctgccctc cagcggagac gcagctcctc aggcgccccg cgggtatttgt tgggtcggcg 180
 gcgtcagggg ttcgcagtgg cctgtggctg gcgtcgtccg gccactgggtg cgcccccgcg 240
 gcaggcagag ctacgcctcc tgtcccccg ctggtccggg gtctgggagc cgcgctgacg 300
 gcggctccgc aggacgcgca gaccgggccc cagcccatgc cccgagcgga ctgcattatg 360
 aggcacctgc cttacttctg ccgggggtcaa gtggtgcggg gcttcggccg cggctccaag 420
 cagctgggca tccccacagc taattttcct gagcaagtgg tagataatct tccagctgat 480
 atatccactg gtatttacta tgggtgggccc agtgttgga gtggagatgt ccataagatg 540
 gtggtgagca taggatggaa cccatattac aagaatacga agaagtctat ggaaacacat 600
 atcatgcata cttcaaaga ggacttctat ggggaaatcc tcaatgtggc cattgttggc 660
 tacctgagac cagaaaagaa ctttgattct ttagagtcac ttatttcagc aattcaaggt 720
 gatattgaag aagctaagaa acgactagag ttaccagaac atttgaaaat caaagaagac 780
 aatttcttcc aggtttctaa aagcaaaata atgaatggcc actgatgaaa aattgtatta 840
 tttattcatt cactgttttc tagtgtttct gtgtttatta ctgttcagca tcatcttggg 900
 tatatactga aaatcaaaca ctttactaca gttgtgaatt agtttaaacc gtacaatgtt 960
 gttatcatat catgcttcaa ctattaaatt aagcccatca tatcatagca ctaaaaagat 1020
 tgagttaaaa ataagattta aaaaatatat attgattaaa atgtaccact agaaaggat 1080
 tacatgtgta taagtatggg taaaaaggca agtcactagt ttgagatgaa aactaaaatt 1140
 ttcattgtaa aatgccagca tgtatgtact tgtgtagtgt gtacttctaa acagagaagg 1200
 cttataaaag taaatgcatt aaggccaagt gcagtggctc acaccggtaa tcccagcact 1260
 ttgggaggcc gaggtgggag gattgcttga gctcatgagt tcaagaccag cctgggcaac 1320
 atagcgagac tccatctcta taaataaaaa aaaaggaaat gcattaaata gaaggttgat 1380
 agtttatcat aaacctgcgg ggaagaaact cagactttct atttttgata ttttgtgcat 1440
 taatacatta caaacatgaa gatgtttgta aagttttgtt ttagtcattt tctttgcagt 1500
 cacatcattg taccaccttc attattgtat agagctgctt caattctgag tcctctggac 1560
 tccccctgcc tatctgtttg ttgttgttgt tgaagacagt aaaataagtg ttttcaaadc 1620
 tatatgtctc ctttttgttg gataatgttt cttcttttta atggtaaata ttcttgttct 1680

1209120

tcaacatttt	tcttttggttc	ttttttccctt	tttttaggaaa	aacaaaaacaa	cagacttcat	1740
ccttaggttt	tctcaagatt	taagtgaaca	catttacaca	tatcaatttc	ttaaagaaca	1800
caaaatgttt	cctccctagc	aaaactattt	aagagccaat	taaactatga	aatagttata	1860
aaattatttt	taatatttaa	ggccttgaaa	ttatatcca	aggcaaactct	aaatgggtgt	1920
agttgtatat	gcacgatgta	atttaatgct	aaagagtact	tacagcttga	gggaaaagca	1980
taaagtttta	gttaaatagc	cttcatactg	tggatttttc	ctcctactaa	ctaatatgtg	2040
ggaaattaag	attacagatg	ctttgggccc	cctcaaacag	tacattgcta	cagttcactg	2100
tagcaacaga	tttggtggtg	atggggggat	agaggtagaa	gcagatagaa	ggtaatttta	2160
aagttaattt	attatgaatc	attttcccct	aatctgcata	aatgaattag	aactgatttt	2220
aataaaaaata	ttctgtgtaa	aaagtactca	gaaaaacatc	taaagctgtt	ggagaagagg	2280
gactcatata	aatagttgga	ttgcgttttg	ctttttattt	ctttataaaa	atatgtcaaa	2340
aacagttttt	aatttttagaa	atcttatact	tgaagaaaac	ctcaattatc	agtggcttta	2400
tgaagtaaag	ttaaaaaacaa	acataggaaa	tgtgaaaata	tttgtgtttg	ttttgtctga	2460
ctaacttgct	gctaaatgct	atcttttaggt	gtgtgaaagt	tctttgatat	gttattgtcc	2520
ttttacatct	tgttaaatag	ccattgcttt	tgagaatcag	atagtgtgtt	gtttaggggt	2580
taattgtgtc	tatatctttc	aaaaactttt	atattatgta	ttataagaag	ttacagtagt	2640
accattttga	ttagtctgaa	tgtttttcagg	ccttgaaata	aattttgact	aagtgatatt	2700
ttttcttaaa	aaaaaaaa					2718

<210> 13
 <211> 2385
 <212> DNA
 <213> Homo sapiens

<400> 13

atggagtcgg	ccgacttcta	cgaggcggag	ccgcggcccc	cgatgagcag	ccacctgcag	60
agccccccgc	acgcgcccag	cagcgccgcc	ttcggttttc	cccggggcgc	gggccccgcg	120
cagcctcccg	ccccacctgc	cgccccggag	ccgctgggcg	gcatctgcga	gcacgagacg	180
tccatcgaca	tcagcgccca	catcgaccgg	gccgccttca	acgacgagtt	cctggccgac	240
ctgttccagc	acagccggca	gcaggagaag	gccaaggcgg	ccgtgggccc	cacgggcggc	300
ggcggcggcg	gcgactttga	ctacccgggc	gcgcccgcgg	gccccggcgg	cgccgtcatg	360
cccgggggag	cgcacgggcc	cccggccggc	tacggctgcg	cggccgcccg	ctacctggac	420
ggcaggctgg	agccccctgt	cgagcgcgtc	ggggcgccgg	cgctgcggcc	gctggtgatc	480
aagcaggagc	cccgcgagga	ggatgaagcc	aagcagctgg	cgctggcccg	cctcttccct	540
taccagccgc	cgccgcccgc	gccgcccctg	cacccgcacc	cgaccccgcc	gcccgcgcac	600
ctggccgccc	cgcacctgca	gttccagatc	gcgcactgcg	gccagaccac	catgcacctg	660
cagcccggtc	acccacgcgc	gccgcccacg	cccgtgccc	gcccgcaccc	cgcgcccgcg	720
ctcgggtgcc	ccggcctgcc	gggccctggc	agcgcgctca	aggggctggg	cgccgcgcac	780

1209120

cccgcacctcc	gcgcgagtg	cggcagcggc	gcgggcaagg	ccaagaagtc	ggtggacaag	840
aacagcaacg	agtaccgggt	gcggcgcgag	cgcaacaaca	tcgcggtgcg	caagagccgc	900
gacaaggcca	agcagcgcaa	cgtggagacg	cagcagaagg	tgctggagct	gaccagtgc	960
aatgaccgcc	tgcgcaagcg	ggtggaacag	ctgagccgcg	aactggacac	gctgcggggc	1020
atcttccgcc	agctgccaga	gagctccttg	gtcaaggcca	tgggcaactg	cgctgaggc	1080
gcgcggctgt	gggaccgccc	tgggccagcc	tccggcgggg	acccagggag	tggtttgggg	1140
tcgccggatc	tcgaggcttg	cccagagccg	gcgagccagg	actaggagat	tccggtgcct	1200
cctgaaagcc	tggcctgctc	cgctgtcccc	ctcccttcct	ctgcgccgga	cttgggtgcg	1260
ctaagatgag	ggggccaggc	ggtggcttct	ccctgcgagg	aggggagaat	tcttggggct	1320
gagctgggag	cccggcaact	ctagtattta	ggataacctt	gtgccttgga	aatgcaaact	1380
caccgctcca	atgcctactg	agtaggggga	gcaaatcgtg	ccttgtcatt	ttatttggag	1440
gtttcctgcc	tccttcccg	ggctacagca	gaccccatg	agagaaggag	gggagcaggc	1500
ccgtggcagg	aggagggctc	agggagctga	gatccccgac	agcccgccag	ccccagccgc	1560
tcctccacgc	ctgtccttag	aaaggggtgg	aaacataggg	acttggggct	tggaaacctaa	1620
ggttggtccc	ctagttctac	atgaagggtg	agggctctta	gttccacgcc	tctccacct	1680
ccctccgcac	acacccacc	ccagcctgct	ataggctggg	cttccccttg	gggcgggaact	1740
cactgcgatg	ggggtcacca	ggtgaccagt	gggagcccc	accccgagtc	acaccagaaa	1800
gctaggtcgt	gggtcagctc	tgaggatgta	tacccttggt	gggagaggga	gacctagaga	1860
tctggctgtg	gggcgggcat	ggggggtgaa	gggccactgg	gaccctcagc	cttgtttgta	1920
ctgtatgcct	tcagcattgc	ctaggaacac	gaagcacgat	cagtccatcc	cagagggacc	1980
ggagttatga	caagctttcc	aaatattttg	ctttatcagc	cgatatcaac	acttgatatct	2040
ggcctctgtg	ccccagcagt	gccttggtgca	atgtgaatgt	gcgcgtctct	gctaaaccac	2100
cattttatct	ggtttttggt	ttgttttggt	tttgctcgga	tacttgccaa	aatgagactc	2160
tccgtcggca	gctgggggaa	gggtctgaga	ctccctttcc	ttttggtttt	gggattactt	2220
ttgatcctgg	gggaccaatg	aggtgagggg	ggttctcctt	tgccctcagc	tttccccagc	2280
ccctccggcc	tgggctgccc	acaaggcttg	tccccagag	gccctggctc	ctggctcggga	2340
agggaggtgg	cctcccgcca	acgcatact	ggggctggga	gcagg		2385

<210> 14
 <211> 1908
 <212> DNA
 <213> Homo sapiens

<400> 14	gggacgtcag	cggacggggc	gctcgcgggc	cggggctgta	tggggctccc	gcgcgggctc	60
	ttcttctggg	tgctgctcct	gctcacggct	gcctgctcgg	ggctcctctt	tgccctgtac	120
	ttctcggcgg	tgcagcggtg	cccggggcca	gcggccggag	ccagggacac	cacatcattt	180

1209120

gaagcattct	ttcaatccaa	ggcatcgaat	tcttggacag	gaaagggcca	ggcctgccga	240
cacctgcttc	acctggccat	tcagcggcac	ccccacttcc	gtggcctgtt	caatctctcc	300
attccagtgc	tgctgtgggg	ggacctcttc	accccagcgc	tctgggaccg	cctgagccaa	360
cacaaagccc	cgatatggctg	gcgggggctc	tctcaccaag	tcatcgccctc	caccttgagc	420
cttctgaacg	gctcagagag	tgccaagctg	tttgccccgc	ccagggacac	ccctccaaag	480
tgtatccggt	gtgccgtggt	gggcaacgga	ggcattctga	atgggtcccg	ccaggggtccc	540
aacatcgatg	cccatgacta	tgtattcaga	ctcaatggag	ctgtgatcaa	aggcttcgag	600
cgcgatgtgg	gcaccaagac	ttccttctat	ggtttctactg	tgaacacgat	gaagaactcc	660
ctcgtctcct	actggaatct	gggcttcacc	tccgtgccac	aaggacagga	cctgcagtat	720
atcttcatcc	cctcagacat	ccgcgactat	gtgatgctga	gatcggccat	tctgggcgtg	780
cctgtccctg	agggcctaga	taaaggggac	aggccgcacg	cctattttgg	accagaagcc	840
tctgccagta	aattcaagct	gctacatccg	gacttcatca	gctacctgac	agaaaggttc	900
ttgaaatcaa	agttgattaa	cacacatttt	ggagacctat	atatgcctag	taccgggggt	960
ctcatgctgc	tgacagcttt	gcatacctgt	gaccagggtca	gtgcctatgg	attcatcaca	1020
agcaactact	ggaaattttc	cgaccactat	ttcgaacgaa	aaatgaagcc	attgatattt	1080
tatgcaaacc	acgatctgtc	cctggaagct	gccctgtgga	gggacctgca	caaggccggc	1140
atccttcagc	tgtaccagcg	ctgaccccaa	tgcactgagc	gctttgcttc	ttcaagagtt	1200
gcggccctga	tcctctcaag	tggccaaaag	cttttttaac	ttttcaatct	tcaccttccc	1260
ttgccaacag	agggcactgg	ggtgaattca	agattttcat	cgagggtctgt	tcaatatagg	1320
acaccccagc	ttgtccttgg	ctcatccaag	aactcttctg	tatctaaaac	aatacatctc	1380
aatcttggcc	aagggaaaat	ggactgcttt	gctggattgg	cactgagcaa	ctttaggaaa	1440
tgtcggtgga	gtgttcagca	agatcagaca	gcagtccagg	tcaaaggcaa	acacacacgc	1500
tccagcccaa	atcctcctgg	tggcacatcc	taccccagat	gctaaagtga	ttcaaggact	1560
ccaggacacc	tcttaagagc	ctttctaaga	acatgatagg	cttacttctg	ctccataata	1620
aagtgggaga	aaaaagccag	aatataactt	aagactagat	aactgcgtac	atgatggacc	1680
atTTTTTTTT	TTTTTggctg	ggtagagaaa	tcatataaaa	cgcaggctgt	ttagcatgga	1740
gatgactctc	agaacactgg	gaggggtctg	cacttgatgg	gggttagttg	cttggcagcc	1800
tgcttgccac	tgagggaagt	cccattagag	atgtatcacc	accttgtcac	caacagggatg	1860
atgtcaccaa	caggatgatg	tcaccaggta	ataaaccttc	atcctcac		1908

<210> 15
 <211> 2358
 <212> DNA
 <213> Homo sapiens

<400> 15						
aaactcacac	aacaactctt	ccccgctgag	aggagacagc	cagtgcgact	ccaccctcca	60
gctcgacggc	agccgccccg	gccgacagcc	ccgagacgac	agccccggcg	gtccccggtcc	120

1209120

ccacctccga ccaccgccag cgctccaggc cccgccgctc cccgctcgcc gccaccgcgc	180
cctccgctcc gcccgcagtg ccaaccatga ccgccgccag tatgggcccc gtccgcgtcg	240
ccttcgtggt cctcctcgcc ctctgcagcc ggccggccgt cggccagaac tgcagcgggc	300
cgtgccggtg cccggacgag ccggcgccgc gctgcccggc gggcgtgagc ctcgtgctgg	360
acggctgcgg ctgctgccgc gtctgcgcca agcagctggg cgagctgtgc accgagcgcg	420
accctgcga cccgcacaag ggctcttct gtgacttcgg ctccccggcc aaccgcaaga	480
tcggcggtg caccgcaaaa gatggtgctc cctgcatctt cgggtgtacg gtgtaccgca	540
gcggagagtc cttccagagc agctgcaagt accagtgcac gtgcctggac gggcggtg	600
gctgcatgcc cctgtgcagc atggacgttc gtctgcccag ccctgactgc cccttcccga	660
ggaggggtcaa gctgcccggg aaatgctgcg aggagtgggt gtgtgacgag cccaaggacc	720
aaaccgtggt tgggcctgcc ctgcggctt accgactgga agacacgttt ggcccagacc	780
caactatgat tagagccaac tgcctggctc agaccacaga gtggagcgcc tgttccaaga	840
cctgtgggat gggcatctcc acccgggtta ccaatgacaa cgcctcctgc aggctagaga	900
agcagagccg cctgtgcatg gtcaggcctt gcgaagctga cctggaagag aacattaaga	960
agggcaaaaa gtgcatccgt actcccaaaa tctccaagcc tatcaagttt gagctttctg	1020
gctgcaccag catgaagaca taccgagcta aattctgtgg agtatgtacc gacggccgat	1080
gctgcacccc ccacagaacc accaccctgc cggtggagtt caagtgccct gacggcgagg	1140
tcatgaagaa gaacatgatg ttcattcaaga cctgtgcctg ccattacaac tgtcccggag	1200
acaatgacat ctttgaatcg ctgtactaca ggaagatgta cggagacatg gcatgaagcc	1260
agagagtgag agacattaac tcattagact ggaacttgaa ctgattcaca tctcattttt	1320
ccgtaaaaaat gatttcagta gcacaagtta tttaaatctg tttttctaac tgggggaaaa	1380
gattccccacc caattcaaaa cattgtgcc a tgtcaaaaca atagtctatc aaccccagac	1440
actggtttga agaattgtta gacttgacag tggaaactaca ttagtacaca gcaccagaat	1500
gtatattaag gtgtggcttt aggagcagtg ggaggggtacc agcagaaagg ttagtatcat	1560
cagatagcat cttatacgag taatatgcct gctatttgaa gtgtaattga gaaggaaaat	1620
tttagcgtgc tcactgacct gcctgtagcc ccagtgcag ctaggatgtg cattctccag	1680
ccatcaagag actgagtcaa gttgttcctt aagtcagaac agcagactca gctctgacat	1740
tctgattcga atgacactgt tcaggaatcg gaatcctgtc gattagactg gacagcttgt	1800
ggcaagtga tttgcctgta acaagccaga ttttttaaaa tttatattgt aaatattgtg	1860
tgtgtgtgtg tgtgtgtata tatatatata tgtacagtta tctaagttaa tttaaagttg	1920
tttgtgcctt tttatttttg tttttaatgc tttgatattt caatgttagc ctcaatttct	1980
gaacaccata ggtagaatgt aaagcttgtc tgatcgttca aagcatgaaa tggatactta	2040
tatggaaatt ctgctcagat agaatgacag tccgtcaaaa cagattgttt gcaaagggga	2100
ggcatcagtg tccttggcag gctgatttct aggtaggaaa tgtggtagcc tcacttttaa	2160

1209120

tgaacaaatg	gcctttatta	aaaactgagt	gactctatat	agctgatcag	ttttttcacc	2220
tggaagcatt	tgtttctact	ttgatatgac	tgtttttcgg	acagtttatt	tgttgagagt	2280
gtgacaaaaa	gttacatggt	tgcacctttc	tagttgaaaa	taaagtgtat	attttttcta	2340
taaaaaaaaa	aaaaaaaaa					2358

<210> 16
 <211> 2276
 <212> DNA
 <213> Homo sapiens

<400> 16	
ctcattgaac	tcgcctgcag
ctcttggggt	ttttgtggct
tccttcgtta	ttggagccag
gcctacaccc	cagcaaccat
gtccaaggga	cctgcagttg
gtattgatct	tggcaccacc
tactcttggtg	tggggtgtttt
ccagcacgga	aaagtcgaga
taattgcca	tgatcagggg
aaccgaacca	ctccaagcta
tgctgccttt	acggacactg
aacggttgat	cggtgatgcc
gcaaagaatc	aagttgcaat
gaacccacc	aacacagttt
ttgatgccaa	acgtctgatt
ggacgcagat	ttgatgatgc
tggtgtccag	tctgatatga
aacattggcc	ctttatgggtg
gtgaatgatg	ctggcaggcc
caaggtccaa	gtagaataca
agggagagac	caaaagcttc
tatccagagg	aggtgtcttc
tatggttctg	acaaagatga
aggaaattgc	agaagcctac
cttggaaga	ctgttacc
tgctgtggtc	acagtgccag
cttacttta	tgactctcag
cgtcaggcta	ccaaagatgc
tggaactatt	gctgggtctca
atgtacttag	aattattaat
gagccaactg	ctgctgctat
tgcttacggc	ttagacaaaa
aggttgagc	agaaagaaac
gtgctcatct	ttgacctggg
aggtggcact	tttgatgtgt
caatcctcac	tattgaggat
ggaatctttg	aggtcaagtc
tacagctgga	gacacccact
tggttgagga	agattttgac
aaccgaatgg	tcaaccattt
tattgctgag	tttaagcgca
agcataagaa	ggacatcagt
gagaacaaga	gagctgtaag
acgcctccgt	actgcttggtg
aacgtgctaa	gcgtaccctc
tcttccagca	cccaggccag
tattgagatc	gattctctct
atgaagggaat	cgacttctat
acctccatta	cccgtgcccc
atttgaagaa	ctgaatgctg
acctgttccg	tggcaccctg
gacccagtag	agaaagccct
tcgagatgcc	aaactagaca
agtcacagat	tcatgatatt
gtcctgggtg	gtggttctac
tcgtatcccc	aagattcaga
agcttctcca	agacttcttc
aatggaaaag	aactgaataa
gagcatcaac	cctgatgaag
ctggttgctta	tggtgcagct
gtccaggcag	ccatcttggtc
tggagacaag	tctgagaatg
ttcaagattt	gctgctcttg
gatgtcactc	ctctttccct
tggtattgaa	actgctgggtg
gagtcatgac	tgctctcatc
aagcgtaata	ccaccattcc
taccaagcag	acacagacct
tcactaccta	ttctgacaac
cagcctgggtg	tgcttattca
ggtttatgaa	ggcgagcggtg
ccatgacaaa	ggataacaac
ctgcttgcca	agtttgaact
cacaggcata	cctcctgcac
cccagaggtgt	tcctcagatt
gaagtcactt	ttgacattga
tgccaatgggt	atactcaatg
tctctgctgt	ggacaagagt

1209120

acgggaaaag	agaacaagat	tactatcact	aatgacaagg	gccgtttgag	caaggaagac	1620
attgaacgta	tgggtccagga	agctgagaag	tacaaagctg	aagatgagaa	gcagagggac	1680
aagggtgcat	ccaagaattc	acttgagtcc	tatgccttca	acatgaaagc	aactgttgaa	1740
gatgagaaac	ttcaaggcaa	gattaacgat	gaggacaaac	agaagattct	ggacaagtgt	1800
aatgaaatta	tcaactggct	tgataagaat	cagactgctg	agaaggaaga	atttgaacat	1860
caacagaaaag	agctggagaa	agtttgcaac	cccatcatca	ccaagctgta	ccagagtgca	1920
ggaggcatgc	caggaggaat	gcctggggga	tttctgtgtg	gtggagctcc	tccctctggt	1980
ggtgcttcct	cagggcccac	cattgaagag	gttgattaag	ccaaccaagt	gtagatgtag	2040
cattgttcca	cacatttaaa	acatttgaag	gacctaaatt	cgtagcaaat	tctgtggcag	2100
ttttaaaaag	ttaagctgct	atagtaagtt	actgggcatt	ctcaatactt	gaatatggaa	2160
catatgcaca	ggggaaggaa	ataacattgc	actttataaa	cactgtattg	taagtggaaa	2220
atgcaatgtc	ttaaataaaa	ctatttaaaa	ttggcaccat	aaaaaaaaaa	aaaaaa	2276

<210> 17
 <211> 1817
 <212> DNA
 <213> Homo sapiens

<400> 17						
ctcattgaac	tcgcctgcag	ctcttggggt	ttttgtggct	tccttcgtta	ttggagccag	60
gcctacaccc	cagcaaccat	gtccaaggga	cctgcagttg	gtattgatct	tggcaccacc	120
tactcttgtg	tgggtgtttt	ccagcacgga	aaagtcgaga	taattgcaa	tgatcagggg	180
aaccgaacca	ctccaagcta	tgtcgccttt	acggacactg	aacggttgat	cggtgatgcc	240
gcaaagaatc	aagttgcaat	gaacccccacc	aacacagttt	ttgatgcaa	acgtctgatt	300
ggacgcagat	ttgatgatgc	tgttgtccag	tctgatatga	aacattggcc	ctttatgggtg	360
gtgaatgatg	ctggcaggcc	caagggtcaa	gtagaataca	agggagagac	caaaagcttc	420
tatccagagg	agggtgtctt	tatggttctg	acaaagatga	aggaaattgc	agaagcctac	480
cttgggaaga	ctgttaccaa	tgctgtggtc	acagtgccag	cttacttta	tgactctcag	540
cgtcaggcta	ccaaagatgc	tggaactatt	gctgggtctca	atgtacttag	aattattaat	600
gagccaactg	ctgctgctat	tgcttacggc	ttagacaaaa	aggttggagc	agaaagaaac	660
gtgctcatct	ttgacctggg	agggtggcact	tttgatgtgt	caatcctcac	tattgaggat	720
ggaatctttg	agggtcaagtc	tacagctgga	gacacccact	tgggtggaga	agattttgac	780
aaccgaatgg	tcaaccattt	tattgctgag	tttaagcgca	agcataagaa	ggacatcagt	840
gagaacaaga	gagctgtaag	acgcctccgt	actgcttgtg	aacgtgctaa	gcgtaccctc	900
tcttccagca	cccaggccag	tattgagatc	gattctctct	atgaaggaat	cgacttctat	960
acctccatta	cccgtgcccc	atttgaagaa	ctgaatgctg	acctgttccg	tggcacccctg	1020
gacccagtag	agaaagccct	tcgagatgcc	aaactagaca	agtcacagat	tcagtatatt	1080
gtcctgggtg	gtgggttctac	tcgtatcccc	aagattcaga	agcttctcca	agacttcttc	1140

1209120

aatgaaaaag aactgaataa gagcatcaac cctgatgaag ctgttgctta tggcgcagct	1200
gtccaggcag ccatcttgtc tggagacaag tctgagaatg ttcaagattt gctgctcttg	1260
gatgtcactc ctctttccct tggatttgaa actgctggtg gagtcatgac tgcctcatc	1320
aagcgtaata ccaccattcc taccaagcag acacagacct tcactaccta ttctgacaac	1380
cagcctgggtg tgcttattca ggtttatgaa ggcgagcgtg ccatgacaaa ggataacaac	1440
ctgcttggtg agtttgaact cacaggcatg ccaggaggaa tgcctggggg atttcctggt	1500
ggtggagctc ctccctctgg tgggtgttcc tcagggccca ccattgaaga ggttgattaa	1560
gccaaccaag tgtagatgta gcattgttcc acacatttaa aacatttgaa ggacctaaat	1620
tcgtagcaaa ttctgtggca gttttaaaaa gttaagctgc tatagtaagt tactgggcat	1680
tctcaatact tgaatatgga acatatgcac aggggaagga aataacattg cactttataa	1740
acactgtatt gtaagtggaa aatgcaatgt cttaaataaa actatttaaa attggcacca	1800
taaaaaaaaa aaaaaaa	1817

<210> 18
 <211> 6609
 <212> DNA
 <213> Homo sapiens

<400> 18	
ttcttttaag gagtttgccg cgagcgcgtc tccttcattc gcaggctggg cgcgttcgca	60
gtcggctggc ggcgaaggaa ggcgctctcg ggacctcgcg ggcgcgcgtc ttttggctct	120
tgccccctgtc cctgcggctt ggggaaggcg taaccgcgcg gctaggcgcg ggagaagtgc	180
ggaggagcca tgggcgccgg gagctccacc gagcagcgca gcccggagca gccgcccag	240
gggagctcca cgccggctga gcccagagcc agcggcgcg gcccctcggc cgaggcgcg	300
ccagacacca ccgcggaccc cgccatcgct gcctcggacc ccgccaccaa gtcctacag	360
aagaatggtc agctgtccac catcaatggc gtagctgagc aagatgagct cagcctccag	420
gaggggtgacc taaatggcca gaaaggagcc ctgaacggtc aaggagccct aaacagccag	480
gaggaagaag aagtcattgt cacagaggtt ggacagagag actctgaaga tgtgagcaaa	540
agagactccg ataaagagat ggctactaag tcagcggttg ttcacgacat cacagatgat	600
gggcaggagg agacacccga aataatcgaa cagattcctt cttcagaaag caatttagaa	660
gagctaacac aaccactga gtcccaggct aatgatattg gatttaagaa ggtgtttaag	720
tttgttggct ttaaattcac tgtgaaaaag gataagacag agaagcctga cactgtccag	780
ctactcactg tgaagaaaga tgaaggggag ggagcagcag gggctggcga ccacaaggac	840
cccagccttg gggctggaga agcagcatcc aaagaaagcg aacccaaaca atctacagag	900
aaacccgaag agaccctgaa gcgtgagcaa agccacgcag aaatttctcc cccagccgaa	960
tctggccaag cagtggagga atgcaaagag gaaggagaag agaaacaaga aaaagaacct	1020
agcaagtctg cagaatctcc gactagtccc gtgaccagtg aaacaggatc aaccttcaaa	1080

1209120

aaattcttca	ctcaaggttg	ggccggctgg	cgcaaaaaga	ccagtttcag	gaagccgaag	1140
gaggatgaag	tggaagcttc	agagaagaaa	aaggaacaag	agccagaaaa	agtagacaca	1200
gaagaagacg	gaaaggcaga	ggttgccctc	gagaaactga	ccgcctccga	gcaagcccac	1260
ccacaggagc	cggcagaaaag	tgcccacgag	ccccggttat	cagctgaata	tgagaaagtt	1320
gagctgccct	cagaggagca	agtcagtggc	tcgcagggac	cttctgaaga	gaaacctgct	1380
ccgttggcga	cagaagtgtt	tgatgagaaa	atagaagtcc	accaagaaga	ggttggtggc	1440
gaagtccacg	tcagcaccgt	ggaggagaga	accgaagagc	agaaaacgga	ggtggaagaa	1500
acagcagggt	ctgtgccagc	tgaagaattg	gttgaaatgg	atgcagaacc	tcaggaagct	1560
gaacctgcca	aggagctggt	gaagctcaaa	gaaacgtgtg	tttccggaga	ggaccctaca	1620
cagggagctg	acctcagtcc	tgatgagaag	gtgctgtcca	aacccccga	aggcgttggt	1680
agtgagggtg	aaatgctgtc	atcacaggag	agaatgaagg	tgcaagggaag	tccactaaag	1740
aagcttttta	ccagcactgg	cttaaaaaag	ctttctggaa	agaaacagaa	agggaaaaga	1800
ggaggaggag	acgaggaatc	aggggagcac	actcaggttc	cagccgattc	tccggacagc	1860
caggaggagc	aaaagggcga	gagctctgcc	tcatcccctg	aggagcccga	ggagatcacg	1920
tgtctggaaa	agggttagc	cgagggtgcg	caggatgggg	aagctgaaga	aggagctact	1980
tccgatggag	agaaaaaaag	agaaggtgtc	actccctggg	catcattcaa	aaagatggtg	2040
acgcccaga	agcgtgttag	acggccttcg	gaaagtgata	aagaagatga	gctggacaag	2100
gtcaagagcg	ctaccttgct	ttccaccgag	agcacagcct	ctgaaatgca	agaagaaatg	2160
aaagggagcg	tggaagagcc	aaagccggaa	gaaccaaagc	gcaaggtgga	tacctcagta	2220
tcttggaag	ctttaatttg	tgtgggatca	tccaagaaaa	gagcaaggag	agggtcctct	2280
tctgatgagg	aagggggacc	aaaagcaatg	ggaggagacc	accagaaagc	tgatgaggcc	2340
ggaaaagaca	aagagacggg	gacagacggg	atccttgctg	gttccaaga	acatgatcca	2400
gggcaggga	gttcctcccc	ggagcaagct	ggaagcccta	ccgaagggga	gggcgtttcc	2460
acctgggagt	catttaaaaag	gttagtcacg	ccaagaaaaa	aatcaaagtc	caagctggaa	2520
gagaaaagcg	aagactccat	agctgggtct	ggtgtagaac	attccactcc	agacactgaa	2580
cccggtaaag	aagaatcctg	ggtctcaatc	aagaagttta	ttcctggacg	aaggaagaaa	2640
aggccagatg	ggaaacaaga	acaagcccct	gttgaagacg	cagggccaac	aggggccaac	2700
gaagatgact	ctgatgtccc	ggccgtggtc	cctctgtctg	agtatgatgc	tgtagaaagg	2760
gagaaaatgg	aggcacagca	agcccaaaaa	agcgcagagc	agcccagca	gaaggcagcc	2820
actgagggtg	ccaaggagct	cagcgagagt	caggttcata	tgatggcagc	agctgtcgct	2880
gacgggacga	gggcagctac	cattattgaa	gaaaggtctc	cttcttgat	atctgcttca	2940
gtgacagaac	ctcttgaaca	agtagaagct	gaagccgcac	tgttaactga	ggagggtattg	3000
gaaagagaag	taattgcaga	agaagaacct	cccacggtta	ctgaacctct	gccagagaac	3060
agagaggccc	ggggcgacac	ggtcgttagt	gaggcggaat	tgacccccga	agctgtgaca	3120

1209120

gctgcagaaa	ctgcagggcc	attgggtgcc	gaagaaggaa	ccgaagcatc	tgctgctgaa	3180
gagaccacag	aaatggtgtc	agcagtctcc	cagttaaccg	actccccaga	caccacagag	3240
gaggccactc	cgggtgcagga	ggtggaaggt	ggcgtacctg	acatagaaga	gcaagagagg	3300
cggactcaag	aggtcctcca	ggcagtggca	gaaaaagtga	aagaggaatc	ccagctgcct	3360
ggcaccggtg	ggccagaaga	tgtgcttcag	cctgtgcaga	gagcagaggc	agaaagacca	3420
gaagagcagg	ctgaagcgtc	gggtctgaag	aaagagacgg	atgtagtggt	gaaagtagat	3480
gctcaggagg	caaaaactga	gccttttaca	caagggaagg	tggtggggca	gaccaccca	3540
gaaagctttg	aaaaagctcc	tcaagtcaca	gagagcatag	agtccagtga	gcttgtaacc	3600
acttgtcaag	ccgaaacctt	agctggggta	aatcacagg	agatgggtgat	ggaacagggt	3660
atccccctg	actcgggtga	aacccttaca	gacagtgaga	ctgatggaag	cacccccgta	3720
gccgactttg	acgcaccagg	cacaacccag	aaagacgaga	ttgtggaaat	ccatgaggag	3780
aatgaggtcg	catctggtac	ccagtcaggg	ggcacagaag	cagaggcagt	tcctgcacag	3840
aaagagaggc	ctccagcacc	ttccagtttt	gtgttccagg	aagaaactaa	agaacaatca	3900
aagatggaag	acactctaga	gcatacagat	aaagagggtg	cagtggaaac	tgtatccatt	3960
ctgtcaaaga	ctgaggggac	tcaagaggct	gaccagtatg	ctgatgagaa	aaccaaaagac	4020
gtaccatttt	tcgaaggact	tgaggggtct	atagacacag	gcataacagt	cagtcgggaa	4080
aaggtcactg	aagttgccct	taaagggtga	gggacagaag	aagctgaatg	taaaaaggat	4140
gatgctcttg	aactgcagag	tcacgctaag	tctcctccat	cccccgtaga	gagagagatg	4200
gtagttcaag	tcgaaagggg	gaaaacagaa	gcagagccaa	cccatgtgaa	tgaagagaag	4260
cttgagcacg	aaacagctgt	taccgtatct	gaagagggtca	gtaagcagct	cctccagaca	4320
gtgaatgtgc	ccatcataga	tggggcaaaag	gaagtcagca	gtttggaagg	aagccctcct	4380
ccctgcctag	gtcaagagga	ggcagtatgc	acaaaaattc	aagttcagag	ctctgaggca	4440
tcattcactc	taacagcggc	tgcagaggag	gaaaagggtct	taggagaaac	tgccaacatt	4500
ttagaaacag	gtgaaacggt	ggagcctgca	ggtgcacatt	tagttctgga	agagaaatcc	4560
tctgaaaaaa	atgaagactt	tgccgctcat	ccaggggaag	atgctgtgcc	cacagggccc	4620
gactgtcagg	caaaatcgac	accagtgata	gtatctgcta	ctaccaagaa	aggcttaagt	4680
tccgacctgg	aaggagagaa	aaccacatca	ctgaagtgga	agtcagatga	agtcgatgag	4740
caggttgctt	gccaggagggt	caaagtgagt	gtagcaattg	aggatttaga	gcctgaaaat	4800
gggatttttg	aacttgagac	caaaagcagt	aaacttgtcc	aaaacatcat	ccagacagcc	4860
gttgaccagt	ttgtacgtac	agaagaaaca	gccaccgaaa	tgttgacgtc	tgagttacag	4920
acacaagctc	acgtgataaa	agctgacagc	caggacgctg	gacaggaaac	ggagaaagaa	4980
ggagaggaac	ctcaggcctc	tgcacaggat	gaaacaccaa	ttacttcagc	caaagaggag	5040
tcagagtcaa	ccgcagtggg	acaagcacat	tctgatattt	ccaaagacat	gagtgaagcc	5100
tcagaaaaga	ccatgactgt	tgaggtagaa	ggttccactg	taaatgatca	gcagctggaa	5160

1209120

gaggtcgtcc	tcccatctga	ggaagagggga	ggtggagctg	gaacaaagtc	tgtgccagaa	5220
gatgatggtc	atgccttggt	agcagaaaga	atagagaagt	cactagttga	accgaaagaa	5280
gatgaaaaag	gtgatgatgt	tgatgaccct	gaaaaccaga	actcagccct	ggctgatact	5340
gatgcctcag	gaggcttaac	caaagagtcc	ccagatacaa	atggaccaa	acaaaaagag	5400
aaggaggatg	cccaggaagt	agaattgcag	gaaggaaaag	tgcacagtga	atcagataaa	5460
gcgatcacac	cccaagcaca	ggaggagtta	cagaaacaag	agagagaatc	tgcaaagtca	5520
gaacttacag	aatcttaaaa	catcatgcag	ttaaactcat	tgtctgtttg	gaagaccaga	5580
atgtgaagac	aagtagtaga	agaaaatgaa	tgctgctgct	gagactgaag	accagtattt	5640
cagaactttg	agaattggag	agcaggcaca	tcaactgatc	tcatttctag	agagcccctg	5700
acaatcctga	ggcttcatca	ggagctagag	ccatttaaca	tttcctcttt	ccaagaccaa	5760
cctacaatth	tcccttgata	accatataaa	ttctgattta	aggtcctaaa	ttcttaacct	5820
ggaactggag	ttggcaatac	ctagtctctg	ttctgaaact	ggagtatcat	tctttacata	5880
tttatatgta	tgttttaagt	agtcctcctg	tatctattgt	atattttttt	cttaatgttt	5940
aaggaaatgt	gcaggatact	acatgctttt	tgtatcacac	agtatatgat	ggggcatgtg	6000
ccatagtgca	ggcttgggga	gctttaagcc	tcagttatat	aaccacgaa	aaacagagcc	6060
tcctagatgt	aacattcctg	atcaagggtac	aattctttaa	aattcactaa	tgattgaggt	6120
ccatatttag	tggtactctg	aaattgggtca	ctttcctatt	acacggagtg	tgctaaaact	6180
aaaaagcatt	ttgaaacata	cagaatgttc	tattgtcatt	gggaaatttt	tctttctaac	6240
ccagtggagg	ttagaaagaa	gttatattct	ggtagcaaat	taactttaca	tcctttttcc	6300
tacttgttat	ggttgtttgg	accgataagt	gtgcttaatc	ctgaggcaaa	gtagtgaata	6360
tgttttatat	gttatgaaga	aaagaattgt	tgtaagtttt	tgattctact	cttatatgct	6420
ggactgcatt	cacacatggc	atgaaataag	tcaggttctt	tacaaatggg	atthttgatag	6480
atactggatt	gtgtttgtgc	catatttggt	ccattctttt	aagaacaatg	ttgcaacaca	6540
ttcatttgga	taagttgtga	tttgacgact	gatttaaaata	aaatatttgc	ttcacttaaa	6600
aaaaaaaa						6609

<210> 19
 <211> 6287
 <212> DNA
 <213> Homo sapiens

<400> 19	
ggcagctccg	agggcacctc
cggttctccc	ccatcctccg
ggagtgtctg	ggcgctcagt
60	
ccgctctgat	cccgccgaaa
ccacctgcgg	ttggcaggca
ggagactagg	cgtctgccgg
120	
ggagggcagg	gacccgctaa
gctgatctcc	tgtacagtag
tgctacttaa	aatatgctgg
180	
ggaccatcac	catcacagtt
ggacagagag	actctgaaga
tgtgagcaaa	agagactccg
240	
ataaagagat	ggctactaag
tcagcgggtg	ttcacgacat
cacagatgat	gggcaggagg
300	
agacacccga	aataatcgaa
cagattcctt	cttcagaaaag
caatttagaa	gagctaacac
360	

1209120

aaccactga	gtcccaggct	aatgatattg	gatttaagaa	ggtgtttaag	tttgttggt	420
ttaaattcac	tgtgaaaaag	gataagacag	agaagcctga	cactgtccag	ctactcactg	480
tgaagaaaga	tgaaggggag	ggagcagcag	gggctggcga	ccacaaggac	cccagccttg	540
gggctggaga	agcagcatcc	aaagaaagcg	aacccaaaca	atctacagag	aaacccgaag	600
agaccctgaa	gcgtgagcaa	agccacgcag	aaatttctcc	cccagccgaa	tctggccaag	660
cagtggagga	atgcaaagag	gaaggagaag	agaaacaaga	aaaagaacct	agcaagtctg	720
cagaatctcc	gactagtccc	gtgaccagtg	aaacaggatc	aaccttcaaa	aaattcttca	780
ctcaagggtg	ggccggctgg	cgcaaaaaga	ccagtttcag	gaagccgaag	gaggatgaag	840
tggaagcttc	agagaagaaa	aaggaacaag	agccagaaaa	agtagacaca	gaagaagacg	900
gaaaggcaga	ggttgccctc	gagaaactga	ccgcctccga	gcaagcccac	ccacaggagc	960
cggcagaaaag	tgcccacgag	ccccggttat	cagctgaata	tgagaaagtt	gagctgcctt	1020
cagaggagca	agtcagtggc	tcgcaggggac	cttctgaaga	gaaacctgct	ccgttggcga	1080
cagaagtgtt	tgatgagaaa	atagaagtcc	accaagaaga	ggttgtggcc	gaagtccacg	1140
tcagcaccgt	ggaggagaga	accgaagagc	agaaaacgga	ggtggaagaa	acagcagggg	1200
ctgtgccagc	tgaagaattg	gttgaaatgg	atgcagaacc	tcaggaagct	gaacctgcca	1260
aggagctgg	gaagctcaaa	gaaacgtgtg	tttccggaga	ggaccctaca	cagggagctg	1320
acctcagtcc	tgatgagaag	gtgtgttcca	aaccccccca	aggcgttgtg	agtgagggtg	1380
aaatgtgtc	atcacaggag	agaatgaagg	tgcagggaag	tccactaaag	aagcttttta	1440
ccagcactgg	cttaaaaaag	ctttctggaa	agaaacagaa	agggaaaaga	ggaggaggag	1500
acgaggaatc	aggggagcac	actcaggttc	cagccgattc	tccggacagc	caggaggagc	1560
aaaagggcga	gagctctgcc	tcatccccctg	aggagcccga	ggagatcacg	tgtctggaaa	1620
agggcttagc	cgagggtcag	caggatgggg	aagctgaaga	aggagctact	tccgatggag	1680
agaaaaaaag	agaagggtgc	actccctggg	catcattcaa	aaagatgggtg	acgcccaaga	1740
agcgtgttag	acggccttcg	gaaagtgata	aagaagatga	gctggacaag	gtcaagagcg	1800
ctaccttgtc	ttccaccgag	agcacagcct	ctgaaatgca	agaagaaatg	aaagggagcg	1860
tggaagagcc	aaagccggaa	gaaccaaagc	gcaagggtga	tacctcagta	tcttgggaag	1920
ctttaatttg	tgtgggatca	tccaagaaaa	gagcaaggag	agggctcctt	tctgatgagg	1980
aagggggacc	aaaagcaatg	ggaggagacc	accagaaagc	tgatgaggcc	ggaaaagaca	2040
aagagacggg	gacagacggg	atccttgctg	gttccaaga	acatgatcca	gggcagggaa	2100
gttcctcccc	ggagcaagct	ggaagcccta	ccgaagggga	gggcgtttcc	acctgggagt	2160
catttaaaaag	gttagtcacg	ccaagaaaaa	aatcaaagtc	caagctggaa	gagaaaagcg	2220
aagactccat	agctgggtct	ggtgtagaac	attccactcc	agacactgaa	cccggtaaag	2280
aagaatcctg	ggtctcaatc	aagaagttaa	ttcctggacg	aaggaagaaa	aggccagatg	2340
ggaaacaaga	acaagcccct	gttgaagacg	cagggccaac	aggggccaac	gaagatgact	2400

1209120

ctgatgtccc	ggccgtgggtc	cctctgtctg	agtatgatgc	tgtagaaaagg	gagaaaaatgg	2460
aggcacagca	agccccaaaaa	agcgcagagc	agccccgagca	gaaggcagcc	actgagggtgt	2520
ccaaggagct	cagcgagagt	caggttcata	tgatggcagc	agctgtcgct	gacgggacga	2580
gggcagctac	cattattgaa	gaaagggtctc	cttcttggtat	atctgcttca	gtgacagaac	2640
ctcttgaaca	agtagaagct	gaagccgcac	tgttaactga	ggagggtattg	gaaagagaag	2700
taattgcaga	agaagaaccc	cccacgggtta	ctgaacctct	gccagagaac	agagaggccc	2760
ggggcgacac	ggtcgttagt	gaggcggaat	tgacccccga	agctgtgaca	gctgcagaaa	2820
ctgcagggcc	attgggtgcc	gaagaaggaa	ccgaagcatc	tgctgctgaa	gagaccacag	2880
aaatggtgtc	agcagtctcc	cagttaaccg	actccccaga	caccacagag	gaggccactc	2940
cgggtgcagga	ggtggaagg	ggcgtacctg	acatagaaga	gcaagagagg	cggactcaag	3000
aggtcctcca	ggcagtgga	gaaaaagtga	aagaggaatc	ccagctgcct	ggcaccggtg	3060
ggccagaaga	tgtgcttcag	cctgtgcaga	gagcagaggc	agaaagacca	gaagagcagg	3120
ctgaagcgtc	gggtctgaag	aaagagacgg	atgtagtggt	gaaagtagat	gctcaggagg	3180
caaaaactga	gcctttttaca	caaggggaagg	tggtgggggca	gaccacccca	gaaagctttg	3240
aaaaagctcc	tcaagtcaca	gagagcatag	agtccagtga	gcttgtaacc	acttgtcaag	3300
ccgaaacctt	agctggggta	aaatcacagg	agatggtgat	ggaacaggct	atccccctg	3360
actcggtgga	aacccttaca	gacagtgaga	ctgatggaag	cacccccgta	gccgactttg	3420
acgcaccagg	cacaacccag	aaagacgaga	ttgtggaaat	ccatgaggag	aatgagggtcg	3480
catctggtac	ccagtcaggg	ggcacagaag	cagaggcagt	tcctgcacag	aaagagaggc	3540
ctccagcacc	ttccagtttt	gtgttccagg	aagaaactaa	agaacaatca	aagatggaag	3600
acactctaga	gcatacagat	aaagagggtgt	cagtggaaac	tgtatccatt	ctgtcaaaga	3660
ctgagggggac	tcaagagggt	gaccagtatg	ctgatgagaa	aaccaaagac	gtaccatttt	3720
tcgaaggact	tgaggggtct	atagacacag	gcataacagt	cagtcgggaa	aaggctcactg	3780
aagttgccct	taaagggtgaa	gggacagaag	aagctgaatg	taaaaaggat	gatgctcttg	3840
aactgcagag	tcacgctaag	tctcctccat	cccccggtga	gagagagatg	gtagttcaag	3900
tcgaaaggga	gaaaacagaa	gcagagccaa	cccatgtgaa	tgaagagaag	cttgagcacg	3960
aaacagctgt	taccgtatct	gaagagggtca	gtaagcagct	cctccagaca	gtgaatgtgc	4020
ccatcataga	tggggcacaag	gaagtcagca	gtttggaagg	aagccctcct	ccctgcctag	4080
gtcaagagga	ggcagtatgc	acaaaaattc	aagttcagag	ctctgaggca	tcattcactc	4140
taacagcggc	tgcagaggag	gaaaagggtct	taggagaaaac	tgccaacatt	ttagaaacag	4200
gtgaaacgtt	ggagcctgca	ggtgcacatt	tagttctgga	agagaaaatcc	tctgaaaaaa	4260
atgaagactt	tgccgctcat	ccaggggaag	atgctgtgcc	cacagggccc	gactgtcagg	4320
caaaatcgac	accagtgata	gtatctgcta	ctaccaagaa	aggcttaagt	tccgacctgg	4380
aaggagagaa	aaccacatca	ctgaagtgga	agtcagatga	agtcgatgag	caggttgctt	4440

1209120

gccaggaggt	caaagtgagt	gtagcaattg	aggattttaga	gcctgaaaat	gggatttttg	4500
aacttgagac	caaaagcagt	aaacttgtcc	aaaacatcat	ccagacagcc	gttgaccagt	4560
ttgtacgtac	agaagaaaca	gccaccgaaa	tgttgacgtc	tgagttacag	acacaagctc	4620
acgtgataaa	agctgacagc	caggacgctg	gacaggaaaac	ggagaaagaa	ggagaggaac	4680
ctcaggcctc	tgcacaggat	gaaacaccaa	ttacttcagc	caaagaggag	tcagagtcaa	4740
ccgcagtggg	acaagcacat	tctgatattt	ccaaagacat	gagtgaagcc	tcagaaaaga	4800
ccatgactgt	tgaggtagaa	ggttccactg	taaatgatca	gcagctggaa	gaggtcgtcc	4860
tcccatctga	ggaagagggg	ggtggagctg	gaacaaaagtc	tgtgccagaa	gatgatggtc	4920
atgccttggt	agcagaaaga	atagagaagt	cactagttga	accgaaagaa	gatgaaaaag	4980
gtgatgatgt	tgatgaccct	gaaaaccaga	actcagccct	ggctgatact	gatgcctcag	5040
gaggcttaac	caaagagtcc	ccagatacaa	atggaccaa	acaaaaagag	aaggaggatg	5100
cccaggaagt	agaattgcag	gaaggaaaaag	tgcacagtga	atcagataaa	gcgatcacac	5160
ccaagcaca	ggaggagtta	cagaaaacaag	agagagaatc	tgcaaagtca	gaacttacag	5220
aatcttaaaa	catcatgcag	ttaaactcat	tgtctgtttg	gaagaccaga	atgtgaagac	5280
aagtagtaga	agaaaatgaa	tgctgctgct	gagactgaag	accagtattt	cagaactttg	5340
agaattggag	agcaggcaca	tcaactgatc	tcattttctag	agagcccctg	acaatcctga	5400
ggcttcatca	ggagctagag	ccatttaaca	tttctctttt	ccaagaccaa	cctacaattt	5460
tcccttgata	accatataaa	ttctgattta	aggtcctaaa	ttcttaacct	ggaactggag	5520
ttggcaatac	ctagttctgc	ttctgaaact	ggagtatcat	tctttacata	tttatatgta	5580
tgttttaagt	agtcctcctg	tatctattgt	atattttttt	cttaatgttt	aaggaaatgt	5640
gcaggatact	acatgctttt	tgtatcacac	agtatatgat	ggggcatgtg	ccatagtgca	5700
ggcttgggga	gctttaagcc	tcagttatat	aaccacgaa	aaacagagcc	tcctagatgt	5760
aacattcctg	atcaaggtag	aattcttta	aattcactaa	tgattgaggt	ccatatttag	5820
tggtactctg	aaattgggtca	ctttcctatt	acacggagtg	tgctaaaact	aaaaagcatt	5880
ttgaaacata	cagaatgttc	tattgtcatt	gggaaatttt	tctttctaac	ccagtggagg	5940
ttagaaagaa	gttatattct	ggtagcaa	taactttaca	tcctttttcc	tacttgttat	6000
ggttgtttgg	accgataagt	gtgcttaatc	ctgaggcaaa	gtagtgaata	tgttttatat	6060
gttatgaaga	aaagaattgt	tgtaagtttt	tgattctact	cttatatgct	ggactgcatt	6120
cacacatggc	atgaaataag	tcaggttcct	tacaaatggg	attttgatag	atactggatt	6180
gtgtttgtgc	catatttgtg	ccattctttt	aagaacaatg	ttgcaacaca	ttcatttgga	6240
taagttgtga	tttgacgact	gatttaaata	aaatatttgc	ttcactt		6287

<210> 20
 <211> 3239
 <212> DNA
 <213> Homo sapiens

1209120

```

<400> 20
gggggtccgt tccccaaactt cctcggcgct ccggactccc aagtctccgc cggaccctcc 60
tttggatatt cctcgtgtct ccgattctga gacagagggg gaagacgggtg gggcctcccc 120
acctgccccg cagaagatgc agttctttgg ccgcctgggtc aataccttca gtggcgtcac 180
caacttgttc tctaaccat tccgggtgaa ggagggtggct gtggccgact acacctcgag 240
tgaccgagtt cgggaggaag ggcagctgat tctgttccag aacctccca accgcacctg 300
ggactgcgtc ctggtcaacc ccaggaactc acagagtggg ttccgactct tccagctgga 360
gttggagggt gacgccctag tgaatttcca tcagtattct tcccagctgc tacccttcta 420
tgagagctcc cctcagggtcc tgcacactga ggtcctgcag cacctgaccg acctcatccg 480
taaccacccc agctggctag tggcccacct ggctgtggag ctagggatcc gcgagtgtt 540
ccatcacagc cgtatcatca gctgtgcaa ttgcgaggag aacgaggagg gctgcacacc 600
cctgcacctg gcctgccgca aggggtgatgg ggagatcctg gtggagctgg tgcagtactg 660
ccacactcag atggatgtca ccgactacaa gggagagacc gtcttccatt atgctgtcca 720
gggtgacaat tctcagggtc tgcagctcct tgggaaggaa gcagtggctg gcctgaacca 780
ggtgaataac caagggtga ccccgctgca cctggcctgc cagctgggga agcaggagat 840
ggtccgcgtg ctgctgctgt gcaatgctcg gtgcaacatc atgggccccca acggctaccc 900
catccactcg gccatgaagt tctctcagaa ggggtgtgcy gagatgatca tcagcatgga 960
cagcagccag atccacagca aagacccccg ttacggagcc agccccctcc actgggcca 1020
gaacgcagag atggccccgca tgctgtgtaa acggggctgc aacgtgaaca gcaccagctc 1080
cgcggggaac acggccctgc acgtggcgggt gatgcgcaac cgcttcgact gtgccatagt 1140
gctgctgacc cacggggcca acgcggatgc ccgcggagag cacggcaaca ccccgtgca 1200
cctggccatg tcgaaagaca acgtggagat gatcaaggcc ctcatcgtgt tcggagcaga 1260
agtggacacc ccgaatgact ttggggagac tcctacattc ctaccctcca aaatcggcag 1320
acttgtcacc aggaaggcga tcttgactct gctgagaacc gtgggggccc aatactgctt 1380
cccacccatc cacgggggtcc ccgcggagca gggctctgca gcgccacatc atcccttctc 1440
cctggaaaga gctcagcccc caccgatcag cctaaacaac ctagaactac aggatctcat 1500
gcacatctca cgggccccgga agccagcgtt catcctgggc tccatgaggg acgagaagcg 1560
gacccacgac cacctgctgt gcctggatgg aggaggagtg aaaggcctca tcatcatcca 1620
gctcctcatc gccatcgaga aggcctcggg tgtggccacc aaggacctgt ttgactgggt 1680
ggcgggcacc agcactggag gcatcctggc cctggccatt ctgcacagta agtccatggc 1740
ctacatgcgc ggcagtact ttcgcatgaa ggatgaggtg ttccgggggt ccaggcccta 1800
cgagtcgggg cccctggagg agttcctgaa gcgggagttt ggggagcaca ccaagatgac 1860
ggacgtcagg aaaccaagg tgatgctgac agggacactg tctgaccggc agccggctga 1920
actccacctc ttccggaact acgatgctcc agaaactgtc cgggagcctc gtttcaacca 1980

```

1209120

gaacgttaac	ctcaggcctc	cagctcagcc	ctcagaccag	ctggtgtggc	gggcggcccc	2040
aagcagcggg	gcagctccta	cttacttccg	acccaatggg	cgcttcctgg	acggtgggct	2100
gctggccaac	aacccacgc	tggatgccat	gaccgagatc	catgagtaca	atcaggacct	2160
gatccgcaag	ggtcaggcca	acaaggtgaa	gaaactctcc	atcgttgtct	ccctggggac	2220
agggaggtcc	ccacaagtgc	ctgtgacctg	tgtggatgtc	ttccgtccca	gcaaccctg	2280
ggagctggcc	aagactgttt	ttggggccaa	ggaactgggc	aagatggtgg	tggactgttg	2340
cacggatcca	gacgggcggg	ctgtggaccg	ggcacgggcc	tggcgcgaga	tggtcggcat	2400
ccagtacttc	agattgaacc	cccagctggg	gacggacatc	atgctggatg	aggtcagtga	2460
cacagtgtctg	gtcaacgccc	tctgggagac	cgaggctctac	atctatgagc	accgcgagga	2520
gttcagaag	ctcatccagc	tgtgtctctc	accctgaggg	tccccagcct	ctcaccggcc	2580
ccagctgacc	tcgtccattc	agccccctgcc	aggccaagcc	cagccactgc	cctccccggc	2640
agatctgggc	ccaggcacct	ctgagtccat	agaccaggcc	tgggagaatg	ccaagctgcc	2700
tgcccgaggc	tggtcctgaa	ggcctgtctc	ccactaacc	cgccttccag	cactttctgt	2760
cattccaggc	tgggaaagtc	tagagcccc	tttgccccct	ttccctgact	gtcaaggaca	2820
actgactccc	ccatcagctc	aaacattaag	ggtacccggg	cacaaccgta	cccctgcccc	2880
cagccccagc	ctccctgagg	gcctgcccgg	ctgcctctgc	cccagcccc	agcaagggca	2940
ctcccaggct	tcctggtggg	tgcagcccac	tccctctgcc	ctctgtccg	ttccctgggg	3000
gctgggacta	aagaaatggg	tgtccccac	cccacagct	gggaaagccc	aggccgcagg	3060
agtgggatgc	ccgttggtg	ttgccccca	cactggccca	gccccctaca	ctgccccacc	3120
ccgagaaccc	tcagctctca	aaggctcctc	ctgggagttt	cttcttccca	atggaagtgg	3180
cttaagagcc	aaaactgaaa	taaatcattt	ggattcaagt	tcaaaaaaaaa	aaaaaaaaa	3239

<210> 21
 <211> 3074
 <212> DNA
 <213> Homo sapiens

<400> 21	
gggggtccgt	tccccaaactt cctcggcgct ccggactccc aagtctccgc cggaccctcc 60
tttgatatt	cctcgtgtct ccgattctga gacagagggg gaagacggtg gggcctcccc 120
acctgccccg	cagaagatgc agttctttgg ccgcctgggc aataccttca gtggcgtcac 180
caacttgttc	tctaaccat tccgggtgaa ggaggtggct gtggccgact acacctcgag 240
tgaccgagtt	cgggaggaag ggcagctgat tctgttccag aacctccca accgcacctg 300
ggactgcgtc	ctggtcaacc ccaggaaactc acagagtggg ttccgactct tccagctgga 360
gttgagggt	gacgccctag tgaatttcca tcagtattct tcccagctgc tacccttcta 420
tgagagctcc	cctcaggtcc tgcacactga ggtcctgcag cacctgaccg acctcatccg 480
taaccacccc	agctgggtcag tggccacact ggctgtggag ctagggatcc gcgagtgtt 540
ccatcacagc	cgatatcatca gctgtgcca ttgcgcggag aacgaggagg gctgcacacc 600

1209120

cctgcacctg	gcctgccgca	agggatgatg	ggagatcctg	gtggagctgg	tgcagtactg	660
ccacactcag	atggatgtca	ccgactacaa	gggagagacc	gtcttccatt	atgctgtcca	720
gggtgacaat	tctcaggtgc	tgcagctcct	tggaaggaa	gcagtggctg	gcctgaacca	780
ggtgaataac	caagggctga	ccccgctgca	cctggcctgc	cagctgggga	agcaggagat	840
ggtccgcgtg	ctgctgctgt	gcaatgctcg	gtgcaacatc	atgggcccc	acggctaccc	900
catccactcg	gccatgaagt	tctctcagaa	ggggtgtg	gagatgatca	tcagcatgga	960
cagcagccag	atccacagca	aagacccccg	ttacggagcc	agccccctcc	actgggcca	1020
gaacgcagag	atggcccgc	tgctgctgaa	acggggctgc	aacgtgaaca	gcaccagctc	1080
cgcggggaac	acggccctgc	acgtggcggt	gatgcgcaac	cgcttcgact	gtgccatagt	1140
gctgctgacc	cacggggcca	acgcggatgc	ccgcggagag	cacggcaaca	ccccgctgca	1200
cctggccatg	tcgaaagaca	acgtggagat	gatcaaggcc	ctcatcgtgt	tcggagcaga	1260
agtggacacc	ccgaatgact	ttggggagac	tcctacattc	ctagcctcca	aaatcggcag	1320
acaactacag	gatctcatgc	acatctcacg	ggcccgaag	ccagcgttca	tcctgggctc	1380
catgaggggac	gagaagcgga	cccacgacca	cctgctgtgc	ctggatggag	gaggagtga	1440
aggcctcatc	atcatccagc	tcctcatcgc	catcgagaag	gcctcgggtg	tggccaccaa	1500
ggacctgttt	gactgggtgg	cgggcaccag	cactggaggc	atcctggccc	tggccattct	1560
gcacagtaag	tccatggcct	acatgcgcgg	catgtacttt	cgcatgaagg	atgagggtgt	1620
ccggggctcc	aggccctacg	agtcggggcc	cctggaggag	ttcctgaagc	gggagtttgg	1680
ggagcacacc	aagatgacgg	acgtcaggaa	acccaagggtg	atgctgacag	ggacactgtc	1740
tgaccggcag	ccggctgaac	tccacctctt	ccggaactac	gatgctccag	aaactgtccg	1800
ggagcctcgt	ttcaaccaga	acgttaacct	caggcctcca	gctcagccct	cagaccagct	1860
ggtgtggcgg	gcggcccga	gcagcggggc	agctcctact	tacttccgac	ccaatgggcg	1920
cttcctggac	ggtgggctgc	tggccaacaa	ccccacgctg	gatgccatga	ccgagatcca	1980
tgagtacaat	caggacctga	tccgcaagg	tcaggccaac	aagggtgaaga	aactctccat	2040
cgttgtctcc	ctggggacag	ggagggtccc	acaagtgcct	gtgacctgtg	tggatgtctt	2100
ccgtcccagc	aacccttggg	agctggccaa	gactgttttt	ggggccaagg	aactgggcaa	2160
gatggtggtg	gactgttgca	cggatccaga	cgggcgggct	gtggaccggg	cacgggcctg	2220
gtgcgagatg	gtcggcatcc	agtacttcag	attgaacccc	cagctgggga	cggacatcat	2280
gctggatgag	gtcagtgaca	cagtgtgtgt	caacgccctc	tgggagaccg	aggtctacat	2340
ctatgagcac	cgcgaggagt	tccagaagct	catccagctg	ctgctctcac	cctgaggggtc	2400
cccagcctct	caccggcccc	agctgacctc	gtccatttcag	cccctgccag	gccaagccca	2460
gccactgccc	tcccgggcag	atctggggcc	aggcacctct	gagtccatag	accaggcctg	2520
ggagaatgcc	aagctgcctg	cccgaggctg	gtcctgaagg	cctgtctccc	actaaccctg	2580
ccttccagca	ctttctgtca	ttccaggctg	ggaaagtcta	gagccccctt	tggccccctt	2640

1209120

ccctgactgt	caaggacaac	tgactcccc	atcagctcaa	acattaaggg	tacccgggca	2700
caaccgtacc	cctgccccca	gccccagcct	ccctgagggc	ctgccgggct	gcctctgccc	2760
cagccccag	caagggcact	cccaggcttc	ctggtgggtg	cagcccactc	cctctgccc	2820
ctgctccgtt	ccctgggggc	tgggactaaa	gaaatgggtg	tccccaccc	catcagctgg	2880
gaaagcccag	gccgcaggag	tgggatgccc	gttggacttt	gcccctcaca	ctggcccagc	2940
ccctcacact	gccccacccc	gagaaccctc	agctctcaaa	ggtcactcct	gggagtttct	3000
tcttcccaat	ggaagtggct	taagagccaa	aactgaaata	aatcatttgg	attcaagttc	3060
aaaaaaaaaa	aaaa					3074

<210> 22
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 22						
acaccacgaa	cgcttgggac	gcagctcctc	cttccctggg	gagccagccc	ctctaccgct	60
ccagcctctc	ccacctggga	ccgcagcacc	tgccccagag	atcctccacc	tccggtgcag	120
tcagtgcctc	cctccccagc	ggtccctcaa	gcagcccagg	gagcgtccct	gccactgtgc	180
ccatgcagat	gccaaagccc	agcagagtcc	agcaggcgct	cgaggagcg	acccgaagc	240
cagagccaga	gccagagcag	gtcataaaaa	actacacgga	agagctgaaa	gtgccccag	300
atgaggactg	catcatctgc	atggagaagc	tgtccgcagc	gtctggatac	agcgatgtga	360
ctgacagcaa	ggcaatcggg	cccctggctg	tgggctgcct	caccaagtgc	agccacgcct	420
tccacctgct	gtgcctcctg	gccatgtact	gcaacggcaa	taagggccct	gagcacccca	480
atcccggaaa	gccgttcact	gccagagggg	ttccccgcca	gtgctacctt	ccagacaacg	540
cccaggggcg	caagcctcca	ggggcttcca	gaaccgggag	acactggctg	acattccggc	600
ctccccacag	ctgctgaccg	atggccacta	catgacgctg	cccgtgtctc	cggaccagct	660
gccctgtgac	gaccccatgg	cgggcagcgg	tgggtcccc	gtgctgcggg	tgggccatga	720
ccacggctgc	caccagcagc	ccttctgcaa	cgcgcccctc	cctggccctg	gaccctatcg	780
tacagaacct	gctaaggcca	tcaaacctat	tgatcggaag	tcagtccatc	agatttgctc	840
tgggccggtg	gtactgagtc	taagcactgg	atgaagaaga	tagtagaaaa	cagtctggat	900
gctggtgcca	ctaagtgtga	tctaaagctt	aaggactatg	gaatggatct	cattgaagtt	960
tcaggcaatg	gatgtggggg	agaagaagaa	aacttcgaag	gcttaatgat	gtcaccattt	1020
ctacctgcca	cgtatcggcg	aagggtggga	ctcgactggg	gtttgatcac	gatgggaaaa	1080
tcattccagaa	aacccctac	ccccaccca	gagggaccac	agtcagcgtg	aagcagttat	1140
tttctacgct	acctgtgctc	cataaggaat	ttcaaaggaa	tattaagaag	aaacgtgcct	1200
gcttccccct	cgcttctgct	cgtgattgtc	agcttcttga	gggctcccca	gccatgcttc	1260
ctgtacagcc	tgcaaaactg	actcctagaa	gtacccacc	ccaccctgc	tccttgagg	1320

1209120

acaacgtgat	cactgtattc	agctccatca	agaatgggtcc	aggttcttct	agatgatctg	1380
cacaaatggt	tcctctcctc	cttcctgatg	tctgccatta	gcattggaat	aaagttcctg	1440
ctgaaaaaaa	aaaaaaaaaa	aaaaaa				1466

<210> 23
 <211> 6116
 <212> DNA
 <213> Homo sapiens

<400> 23						
ctccgactct	cggcacctgg	cctccagctt	tcggaactat	ggaggccgcg	cccgggaccc	60
ccccgccgcc	gccatcagag	tcgccgccgc	cgccatcgcc	gccgccgcca	tcaacgcctt	120
cgctcctcc	gtgttcccc	gacgcccgcc	cggccacccc	gcacctctc	caccaccgcc	180
tcccgcctcc	tgacgacagg	gaagatggag	agttggaaga	aggagaattg	gaagatgatg	240
gggcagagga	gacccaggat	acctccggag	ggcctgagag	aagccggaaa	gaaaaggggg	300
agaagcatca	cagtgattcg	gatgaggaga	agtcccacag	gagactgaag	cggaaacgga	360
agaaagagcg	ggagaaagag	aaaaggaggt	cgaagaagag	gaggaaatcc	aagcacaac	420
gcatgcttc	ttctagcgat	gacttctctg	acttctcaga	tgactcggat	ttcagcccca	480
gtgagaaagg	tcaccgcaag	tacagagagt	acagcccccc	atatgcgccg	tcccaccagc	540
agtaccccc	atcgcatgcc	acgcccctgc	ccaagaaggc	atactccaag	atggacagca	600
agagttatgg	catgtacgag	gactacgaga	atgagcagta	tggggaatat	gagggcgacg	660
aggaggagga	catgggcaag	gaggactatg	acgacttcac	caaagagctg	aaccagtacc	720
ggcgtgccaa	ggagggcagc	agccgcggcc	gaggcagccg	aggccggggc	cggggctaca	780
ggggccgagg	aagccgtgga	ggatcgcgag	gccgcggcat	gggcaggggc	agccgaggca	840
ggggcagagg	ctctatggga	ggagaccacc	cggaggatga	agaggatttc	tacgaggaag	900
agatggacta	tggagagagt	gaggagccaa	tgggagacga	cgactatgac	gagtactcca	960
aggagctgaa	ccagtaccgc	cgctccaagg	acagccgagg	ccgagggcta	agtcgaggcc	1020
gtggcagggg	ctcccaggt	cgagggaaag	gaatgggtcg	gggccgaggc	cgaggtggca	1080
gccgaggagg	gatgaacaag	ggcggaatga	acgatgacga	agacttctat	gacgaggaca	1140
tgggcgacgg	tggtggtgga	agctaccgga	gtcgtgacca	tgacaagccc	caccagcagt	1200
cggacaagaa	aggcaaagtc	atttgcaagt	acttcgtgga	agggcgctgc	acctggggag	1260
accactgtaa	tttttagccat	gacatcgaac	tcccaaagaa	gcgagaactg	tgcaagtttt	1320
acatcactgg	attttgcgcc	agagctgaga	actgccctta	tatgcacggt	gatttcccgt	1380
gtaagctgta	ccacaccact	gggaactgca	tcaatggtga	cgactgcatg	ttttcccacg	1440
accctctgac	cgaagagacg	agggagctct	tggataagat	gttggccgat	gatgcagaag	1500
caggtgccga	ggatgagaag	gaggtggagg	aactgaagaa	gcagggcatc	aacccccctgc	1560
ccaaaccgcc	ccctgggtgtg	ggcctcctgc	ccacccccct	tcggccccct	ggccccgagg	1620
ctccaacctc	tcccaacggc	aggcccatgc	aggggtggccc	cccggccccg	ccccctcccc	1680

1209120

ctccccacc	gcccgggccc	cctcagatgc	ccatgccggt	gcatgagcca	ctgtccccgc	1740
agcagctgca	gcagcaggac	atgtacaaca	agaagatccc	ctccttgttt	gagatcgtgg	1800
tgcggccac	gggacagctg	gctgagaagc	tgggtgtgag	gttccctgga	cccgggtggac	1860
ccccagggcc	aatgggcccct	gggcccaca	tgggaccccc	agggccaatg	ggcgggtccaa	1920
tgcacccga	catgcacccc	gacatgcacc	cggacatgca	ccctgacatg	cacgcagaca	1980
tgcacgcaga	catgccgatg	ggccctggca	tgaatcctgg	cccacccatg	ggccctggcg	2040
gccctccaat	gatgccctac	ggccctggag	actccccaca	ttctggaatg	atgcccccta	2100
tcccgccagc	ccagaacttc	tatgaaaact	tctaccagca	gcaggagggc	atggagatgg	2160
agcccggact	cctgggggat	gcagaggact	acgggcacta	cgaagagctg	ccaggggagc	2220
ctggggagca	cctcttccct	gagcacccctc	tggagcccga	cagcttctct	gagggagggc	2280
ccccaggccg	gccgaagcca	ggcgccggtg	tccctgactt	cctgccctca	gcccagaggg	2340
ccctgtacct	gaggatccag	cagaagcagc	aggaggagga	ggagagagcg	aggaggctgg	2400
ctgagagcag	caagcaggac	cgggagaatg	aggaaggtga	caccggaaac	tggactcaa	2460
gtgatgagga	tgaggggtga	agcagtgtca	cctccatcct	gaagaccttg	aggcagcaga	2520
cgtccagccg	acccccggct	tcagttgggg	agctgagcag	cagtgggctg	ggggaccccc	2580
gcctccagaa	gggacacccc	acaggaagcc	ggctggctga	ccctcgctc	agccgggacc	2640
ccagactcac	ccgccatgtg	gaggcttctg	gcgggtctgg	cccaggtgat	tcgggaccct	2700
ccgatcctcg	gctggctcgc	gccctgccc	cctccaagcc	cgaaggcagc	cttcattcca	2760
gccctgtggg	ccccagcagt	tccaaggggt	ctgggccgcc	cccaacggag	gaggaggaag	2820
gggagcgggc	cctgcgggag	aaggccgtga	acattcccct	ggaccactc	cccgggcacc	2880
ctctgcggga	cccacggtca	cagctgcagc	agttcagcca	catcaagaag	gacgtgaccc	2940
tgagcaagcc	cagcttcgcc	cgcaccgtgc	tctggaatcc	cgaggacctg	atccccctac	3000
ccatcccaa	gcaggacgca	gtgccccccg	tgccgcggc	cctgcaatcc	atgcccaccc	3060
tggacccccg	gctgcaccgc	gctgccacgg	cagggcccc	caacgcccgg	cagcgcccgg	3120
gcgcctccac	ggattccagc	acacagggcg	ccaacctccc	cgactttgaa	cttctgtctc	3180
gcatcctcaa	gacagtcaat	gccaccggct	cctcgccgc	ccccggttcc	agcgacaaac	3240
ccagtgaccc	ccgggtgcgg	aaggccccca	ccgacctcg	gctgcagaaa	cccacagact	3300
ctacggcctc	ctcccgggct	gccaagcccc	gccctgctga	ggcgccctct	cccaccgcca	3360
gcccgagtgg	ggatgcctcc	ccaccagcca	ccgctcccta	cgacccccgc	gtgctggcgg	3420
ccggtggact	gggccagggc	ggagggggcg	ggcagagcag	tgtgctgagc	ggtatcagcc	3480
tctacgaccc	gaggactccc	aacgcggggg	gcaaagccac	agagccggct	gctgacacgg	3540
gtgcccagcc	caaggggtgct	gagggcaatg	gcaagagctc	ggcctccaag	gctaaggagc	3600
ccccgttcgt	ccgcaagtct	gccctggaac	agccagagac	aggggaaggcc	ggtgctgatg	3660
ggggcacccc	cacggacaga	tacaacagct	acaaccggcc	ccggcccaag	gctgctgcag	3720

ccccgctgc	caccaccgcc	acccaccccc	ccgaggggtgc	cccaccccag	cccgggggtgc	3780
acaacctgcc	cgtgcccacc	ctcttcggga	cggtgaagca	gacacccaag	acggggtcag	3840
gaagcccatt	tgctgggaac	agtccggccc	gcgaggggtga	gcaggatgcg	gcatccctga	3900
aggatgtttt	taaaggcttc	gacccacagg	cctccccctt	ttgccagtag	tgtccagcca	3960
gagctgcggc	tccagccacc	cttcctaggg	tggcattcag	ggcagcaccc	agggtagggg	4020
acttgggggc	aaggggaggc	aggctgggtg	ttcctttttt	cttttctttt	tcttttgctt	4080
tccgtctctt	ttattttttt	ttaaagtagt	actttctttg	agatttgtaa	attgtatata	4140
accatcttaa	gttctggtca	gtgtggcggg	ctcaggggct	cctgctgagc	aaaccgactc	4200
atgcccga	acctgtgaac	tttcgccagt	gcctggcctc	agactctgtg	ggctctgcgt	4260
ggccgggcct	tgctggaggc	ccagtgggtt	ttctgggcaa	agcatggccc	cttttcccca	4320
ggacaaaggg	aacagttggt	gtctgggaag	gtattgaacg	ctcctcacc	tgtgcccga	4380
gagacccgga	accaagacca	tggcagggcc	tgcgtggaag	cagggtccagg	cgtttctaga	4440
accctaggg	gcaccatcac	tgtcttttca	gtgcaggctg	taacaacca	ctcaggagac	4500
agtgagagt	aaaagggtatt	aaggaaaaag	ccccagcgg	cactatgggg	gctccctggc	4560
gcatgcctgc	tcctgtccct	ggattaccac	acgtgccctc	cctgccaccc	tccgtctaga	4620
gcaagcggat	gccccccagc	ctgcagcaga	agcctccaca	gtgagaactg	gacccaaagg	4680
tagtgggggc	cggtgtgggg	cagagtcctg	aagagccacc	tctaggaggc	agcccctagg	4740
agcacgcacg	ttctgtcagt	attacccac	ctgtcctatc	agggtgggcca	caccctgctt	4800
gcccacacca	gggtctgtcc	tggctcctca	gccacgcacc	cgctatgcct	gactgagc	4860
ccagccccgg	acagctccag	gatccgtgca	gtggctgcgc	cgccaggccc	caacaatggg	4920
gaccctgggg	tggctcctgg	ccaagtgttc	tctgttttcc	tcgcacctcc	ttacactgtg	4980
tgacctgcag	ggcatgaggt	attgatgtgt	tcgggtttcc	tttcccaagc	cagcagatgc	5040
agggtgtcca	agggtgtgtg	ctctgtggga	tttgtggaca	cttaagaaac	ggactgagt	5100
ggaaccctgc	agccagggga	tggggagcct	ctgctcccc	catgctcca	ccctggctga	5160
gggccagcct	catctgcaga	gccctggagg	aggcccacct	atggacacag	cccagagat	5220
gggcgcaagg	ggtgtgtggg	gaggcctgct	atcctgcctc	tgggccactt	gaggggcctc	5280
aggaagtgtg	tgcttgtggc	tgcattgc	cgtctccctg	gccaccatg	tggctgcagg	5340
ccaagctctt	cattgctgac	catgaagaga	cctagttacc	tgccaaggga	ttccccctcc	5400
ctcctcctca	gggtgggggtg	aacaaggctc	ctatcccacc	ccaccccaaa	aagagaaaaa	5460
tgaaaaactc	atagtttgga	gccaggaggc	agggtgtcct	acagggctgc	acagccctga	5520
ggggtcagt	ctgggatctg	gttgggtgg	ttgtcttttt	gtcttttttt	tttttttttt	5580
ttttacacaa	tcattaatga	gatttgtctt	cagccaccag	tggtggcctt	gaagcagagg	5640
gcacagccct	tgggtgtttg	aaaataagta	tgaatacaca	gtgtggcagt	gttgtggttt	5700
ttgttgttgt	ttttcctctc	cttttgagaa	ttttcttttg	taaaagaaaa	atatttttta	5760

1209120

aaccgaaatc	tgtggatgaa	atagaagctg	gagccctcct	cttggaaatat	tcagcctaag	5820
aacctcatag	gactatgaat	tcacccgaaa	ttctcatttg	ccatcaggcc	gagcttttaa	5880
agaaaaattg	ttctctaacc	aggattgtaa	caaaagtgtg	aatactgttt	cagagttgag	5940
agttggtggt	gcaaatatgt	atataatgaa	ctgtattttt	acaatgatcg	ccgcatgact	6000
atttcacacc	ctttttatac	tccatatctg	tcttccagaa	acgtcacctg	ccttttctcct	6060
gtggtctctt	aatccagtaa	ttgtattact	gccattaaag	gatgcagtta	ttttaa	6116

<210> 24
 <211> 6116
 <212> DNA
 <213> Homo sapiens

<400> 24						
ctccgactct	cggcacctgg	cctccagctt	tcggaactat	ggaggccgcg	cccgggaccc	60
ccccgccgcc	gccatcagag	tcgccgccgc	cgccatcgcc	gccgccgcca	tcaacgcctt	120
cgcttcctcc	gtgttcccc	gacgcccgcc	cggccacccc	gcacctctc	caccaccgcc	180
tcccgtctcc	tgacgacagg	gaagatggag	agttggaaga	aggtgaattg	gaagatgatg	240
gggcagagga	gaccaggat	acctccggag	ggcctgagag	aagccggaaa	gaaaaggggg	300
agaagcatca	cagtgattcg	gatgaggaga	agtcccacag	gagactgaag	cggaaacgga	360
agaaagagcg	ggagaaagag	aaaaggagg	cgaagaagag	gaggaaatcc	aagcacaac	420
gcatgcttc	ttctagcgat	gacttctctg	acttctcaga	tgactcggat	ttcagcccca	480
gtgagaaagg	tcaccgcaag	tacagagagt	acagccccc	atatgcgccg	tcccaccagc	540
agtaccccc	atcgcatgcc	acgcccctgc	ccaagaaggc	atactccaag	atggacagca	600
agagttatgg	catgtacgag	gactacgaga	atgagcagta	tggggaatat	gagggcgacg	660
aggaggagga	catgggcaag	gaggactatg	acgacttcac	caaagagctg	aaccagtacc	720
ggcgtgccaa	ggagggcagc	agccgcggcc	gaggcagccg	aggccggggc	cggggctaca	780
ggggccgagg	aagccgtgga	ggatcgcgag	gccgcggcat	gggcaggggc	agccgaggca	840
ggggcagagg	ctctatggga	ggagaccacc	cggaggatga	agaggatttc	tacgaggaag	900
agatggacta	tggagagagt	gaggagccaa	tgggagacga	cgactatgac	gagtactcca	960
aggagctgaa	ccagtaccgc	cgctccaagg	acagccgagg	ccgagggcta	agtcgaggcc	1020
gtggcagggg	ctcccagggt	cgagggaag	gaatgggtcg	gggccgaggc	cgaggtggca	1080
gccgaggagg	gatgaacaag	ggcggaatga	acgatgacga	agacttctat	gacgaggaca	1140
tgggcgacgg	tgggtggtgga	agctaccgga	gtcgtgacca	tgacaagccc	caccagcagt	1200
cggacaagaa	aggcaaagtc	atttgcaagt	acttcgtgga	agggcgctgc	acctggggag	1260
accactgtaa	ttttagccat	gacatcgaac	tcccaaagaa	gcgagaactg	tgcaagtttt	1320
acatcactgg	atgttgcgcc	agagctgaga	actgccctta	tatgcacggg	gatttcccgt	1380
gtaagctgta	ccacaccact	gggaactgca	tcaatggtga	cgactgcatg	ttttcccacg	1440

1209120

accctctgac	cgaagagacg	agggagctct	tggataagat	gttggccgat	gatgcagaag	1500
caggtgccga	ggatgagaag	gaggtggagg	aactgaagaa	gcagggcatc	aacccccctgc	1560
ccaaaccgcc	ccctggtgtg	ggcctcctgc	ccacccccctc	tcggccccct	ggccccgcagg	1620
ctccaacctc	tcccaacggc	agggcccatgc	aggggtggccc	cccgcccccg	ccccctcccc	1680
ctccccacc	gcccgggccc	cctcagatgc	ccatgccggt	gcatgagcca	ctgtccccgc	1740
agcagctgca	gcagcaggac	atgtacaaca	agaagatccc	ctccttgttt	gagatcgtgg	1800
tgcggcccac	gggacagctg	gctgagaagc	tgggtgtgag	gttccctgga	cccggtgga	1860
ccccagggcc	aatgggccct	gggcccaca	tgggaccccc	agggccaatg	ggcgggtccaa	1920
tgcacacctga	catgcacccc	gacatgcacc	cggacatgca	ccctgacatg	cacgcagaca	1980
tgcacgcaga	catgccgatg	ggccctggca	tgaatcctgg	cccacccatg	ggccctggcg	2040
gcccctcaat	gatgccctac	ggccctggag	actccccaca	ttctggaatg	atgcccccta	2100
tcccgccagc	ccagaacttc	tatgaaaact	tctaccagca	gcaggaggggc	atggagatgg	2160
agccccgact	cctgggggat	gcagaggact	acgggcacta	cgaagagctg	ccagggggagc	2220
ctggggagca	cctcttcctt	gagcacccctc	tggagcccga	cagcttctct	gagggagggc	2280
ccccagggcg	gccgaagcca	ggcgccggtg	tccctgactt	cctgccctca	gcccagaggg	2340
ccctgtacct	gaggatccag	cagaagcagc	aggaggagga	ggagagagcg	aggaggctgg	2400
ctgagagcag	caagcaggac	cgggagaatg	aggaaggtga	caccggaaac	tgggtactcaa	2460
gtgatgagga	tgaggggtga	agcagtgtca	cctccatcct	gaagaccttg	aggcagcaga	2520
cgtccagccg	acccccggct	tcagttgggg	agctgagcag	cagtgggctg	ggggaccccc	2580
gcctccagaa	gggacacccc	acaggaagcc	ggctggctga	ccctcgccctc	agccgggacc	2640
ccagactcac	ccgccatgtg	gaggcttctg	gcgggtctgg	cccagggtgat	tcgggaccct	2700
ccgatcctcg	gctggctcgc	gccctgccc	cctccaagcc	cgaaggcagc	cttcattcca	2760
gcccctgtggg	ccccagcagt	tccaaggggt	ctggggccgcc	cccaacggag	gaggaggaag	2820
gggagcgggc	cctgcgggag	aaggccgtga	acattccccct	ggacccactc	cccgggcacc	2880
ctctgcggga	cccacggtca	cagctgcagc	agttcagcca	catcaagaag	gacgtgaccc	2940
tgagcaagcc	cagcttcgcc	cgcaccgtgc	tctggaatcc	cgaggacctg	atccccctac	3000
ccatccccaa	gcaggacgca	gtgccccccg	tgcccgcggc	cctgcaatcc	atgcccaccc	3060
tggacccccg	gctgcaccgc	gctgccacgg	cagggccccc	caacgcccgg	cagcgccccg	3120
gcgcctccac	ggattccagc	acacagggcg	ccaacctccc	cgactttgaa	cttctgtctc	3180
gcatcctcaa	gacagtcaat	gccaccggct	cctcggccgc	ccccggttcc	agcgacaaac	3240
ccagtgaccc	ccgggtgcgg	aaggccccca	ccgacctctg	gctgcagaaa	cccacagact	3300
ctacggcctc	ctcccgggct	gccaagccccg	gccctgctga	ggcgccctct	cccaccgcca	3360
gcccagagtgg	ggatgcctcc	ccaccagcca	ccgctcccta	cgacccccgc	gtgctggcgg	3420
ccggtggact	gggccagggc	ggagggggcg	ggcagagcag	tgtgctgagc	ggtatcagcc	3480

1209120

tctacgaccc	gaggactccc	aacgcggggg	gcaaagccac	agagccggct	gctgacacgg	3540
gtgcccagcc	caagggtgct	gagggcaatg	gcaagagctc	ggcctccaag	gctaagggagc	3600
ccccgttcgt	ccgcaagtct	gccctggaac	agccagagac	aggggaaggcc	gggtgctgatg	3660
ggggcacccc	cacggacaga	tacaacagct	acaaccggcc	ccggcccaag	gctgctgcag	3720
ccccgctgc	caccaccgcc	acccaccccc	ccgaggggtgc	cccaccccag	cccgggggtgc	3780
acaacctgcc	cgtgcccacc	ctcttcggga	cggtgaagca	gacacccaag	acgggctcag	3840
gaagcccatt	tgctgggaac	agtccggccc	gcgaggggtga	gcaggatgcg	gcatccctga	3900
aggatgtttt	taaaggcttc	gacccccacg	cctccccctt	ttgccagtag	tgtccagcca	3960
gagctgcggc	tccagccacc	cttcctaggg	tggcattcag	ggcagcacc	agggtagggg	4020
acttgggggc	aaggggaggc	aggctgggtg	ttcctttttt	cttttctttt	tcttttgctt	4080
tccgtctctt	ttatTTTTTT	ttaaagtagt	actttctttg	agatttgtaa	attgtatata	4140
accatcttaa	gttctggtca	gtgtggcggg	ctcaggggct	cctgctgagc	aaaccgactc	4200
atgcccga	acctgtgaac	tttcgccagt	gcctggcctc	agactctgtg	ggctctgcgt	4260
ggccgggcct	tgctggaggc	ccagtgggtt	ttctgggcaa	agcatggccc	cttttcccca	4320
ggacaaaggg	aacagttggt	gtctgggaag	gtattgaacg	ctcctcacc	tgtgcccga	4380
gagacccgga	accaagacca	tggcagggcc	tgctggaag	cagggtccagg	cgtttctaga	4440
accctaggg	gcaccatcac	tgtcttttca	gtgcaggctg	taacaacca	ctcaggagac	4500
agtgagagt	aaaagggtatt	aaggaaaaag	ccccagcgg	cactatgggg	gctccctggc	4560
gcatgcctgc	tcctgtccct	ggattaccac	acgtgccctc	cctgccacc	tccgtctaga	4620
gcaagcggat	gccccccagc	ctgcagcaga	agcctccaca	gtgagaactg	gacccaaagg	4680
tagtgggggc	cggtgtgggg	cagagtcctg	aagagccacc	tctaggaggc	agcccctagg	4740
agcacgcacg	ttctgtcagt	attacccac	ctgtcctatc	agggtggcca	caccctgctt	4800
gcccacacca	gggtctgtcc	tggctcctca	gccacgcacc	cgctatgcct	gcactgcagc	4860
ccagccccgg	acagctccag	gatccgtgca	gtggctgcgc	cgccaggccc	caacaatggg	4920
gaccctgggg	tggctcctgg	ccaagtgttc	tctgttttcc	tcgcacctcc	ttacactgtg	4980
tgacctgcag	ggcatgaggt	attgatgtgt	tcgggtttcc	tttcccaagc	cagcagatgc	5040
agggtgtcca	agggtgtgtg	ctctgtggga	tttgtggaca	cttaagaaac	ggactgagtg	5100
ggaaccctgc	agccaggggg	tggggagcct	ctgctcccc	catgctccca	ccctggctga	5160
gggcccagcct	catctgcaga	gccctggagg	aggcccacct	atggacacag	cccagagagat	5220
gggcgcaagg	gggtgctggg	gaggcctgct	atcctgcctc	tgggccactt	gaggggcctc	5280
aggaagtgtg	tgcttggtgg	tgcatctgcc	cgtctccctg	gcccaccatg	tggctgcagg	5340
ccaagctctt	cattgctgac	catgaagaga	cctagttacc	tgccaagggg	ttccccttcc	5400
ctcctcctca	gggtgggggtg	aacaaggctc	ctatcccacc	ccaccccaaa	aagagaaaaa	5460
tgaaaaactc	atagtttgga	gccaggaggc	agggtgtcct	acagggctgc	acagccctga	5520

1209120

ggggtcagtg	ctgggatctg	gttggttggg	ttgtcttttt	gtcttttttt	tttttttttt	5580
ttttacacaa	tcattaatga	gatttgtctt	cagccaccag	tgttggcctt	gaagcagagg	5640
gcacagccct	tggtgtttgt	aaaataagta	tgaatacaca	gtgtggcagt	gttgtggttt	5700
ttgttggtgt	ttttcctctc	cttttgagaa	ttttcttttg	taaaagaaaa	atatttttta	5760
aaccgaaatc	tgtggatgaa	atagaagctg	gagccctcct	cttggaatat	tcagcctaag	5820
aacctcatag	gactatgaat	tcacccgaaa	ttctcatttg	ccatcaggcc	gagcttttaa	5880
agaaaaattg	ttctctaacc	aggattgtaa	caaaagtgtg	aatactgttt	cagagttgag	5940
agttgggtgg	gcaaatatgt	atataatgaa	ctgtattttt	acaatgatcg	ccgcatgact	6000
atttcacacc	ctttttatac	tccatatctg	tcttccagaa	acgtcacctg	cctttctcct	6060
gtggtctctt	aatccagtaa	ttgtattact	gccattaaag	gatgcagtta	ttttaa	6116

<210> 25
 <211> 4805
 <212> DNA
 <213> Homo sapiens

<400> 25

gttaagttgg	agccgactca	gcggcgcccg	ccattttgtg	cagtcgctgg	gaaggaagga	60
gacgcctaaa	ccgcggcact	gcccggtttg	agcgtagcca	aacctgcca	ccggctttgt	120
agccccgatt	ctctgtgttt	tgctcccgtc	tccgacgaga	gaggcggcga	cggtggcgtc	180
tgcgacggga	gacagcgct	cggagcgaga	gagcgctgcg	cctgccgccg	ccccaacagc	240
ggaggcgccg	ccgccatcgg	tcgtcaccag	accggagccg	caggccctcc	cgagcccggc	300
catccgtgcc	ccgctcccag	atctctatcc	ttttgggacc	atgcgcggag	gaggctttgg	360
ggaccgggac	cgggatcgtg	accgtggagg	atttggagca	agaggtgggtg	gtggccttcc	420
cccgaagaaa	tttggtaatc	ctggggagcg	tttgcgtaaa	aaaaagtggg	atttgagtga	480
gctccccaag	tttgagaaaa	atttttatgt	ggaacatccg	gaagtagcaa	ggctgacacc	540
atatgaggtt	gatgagctac	gccgaaagaa	ggagattaca	gtgagggggg	gagatgtttg	600
tcctaaaccc	gtgtttgcct	tccatcatgc	taacttcca	caatatgtaa	tggatgtgtt	660
gatggatcag	cactttacag	aaccaactcc	aattcagtcg	cagggatttc	cgttggctct	720
tagtggccgg	gatatggtgg	gcattgctca	gactggctct	gggaagacgt	tggcgtatct	780
cctgcctgca	attgttcata	ttaaccacca	gccatacttg	gaaaggggag	atggccaat	840
ctgtctagtt	ctggctccta	ccagagagct	tgcccagcaa	gtacagcagg	tggccgatga	900
ctatggcaaa	tgttctagat	tgaagagtac	ttgtatttat	ggaggtgctc	ctaaaggctc	960
ccagattcga	gacttgga	gaggtgttga	gatctgcata	gccactcctg	gacgtctgat	1020
agatttcctg	gagtcaggaa	agacaaatct	tcgccgatgt	acttaccttg	tattggacga	1080
agctgacaga	atgcttgata	tggggtttga	acccagatc	cgtaaaattg	ttgaccaa	1140
caggcctgat	aggcagacac	tgatgtggag	tgcaacctgg	ccaaaagaag	taagacagct	1200
tgcagaggat	ttccttcgtg	attacacca	gatcaacgta	ggcaatctgg	agttgagtcg	1260

1209120

caaccacaac atcctccaga tagtggatgt ctgcatggaa agtgaaaaag accacaagtt	1320
gatccaacta atggaagaaa taatggctga aaaggaaaac aaaacaataa tttttgtgga	1380
gacaaagaga cgctgtgatg atctgactcg aaggatgctg agagatgggt ggccagctat	1440
gtgtatccat ggagacaaga gtcaaccaga aagagattgg gtacttaatg agttccgttc	1500
tggaaaggca cccatcctta ttgctacaga tgtagcctcc cgtgggctag atgtggaaga	1560
tgtcaagttt gtgatcaact atgactatcc aaacagctca gaggattatg tgcaccgtat	1620
tggccgaaca gcccgtagca ccaacaaggg taccgcctat accttcttca cccaggggaa	1680
cctaaaacag gccagagagc ttatcaaagt gctggaagag gccaatcagg ctatcaatcc	1740
aaaactgatg cagcttgtgg accacagagg aggcggcgga ggcgggggtg gtcgttctcg	1800
ttaccggacc acttcttcag ccaacaatcc caatctgatg tatcaggatg agtgtgaccg	1860
aaggcttcga ggagtcaagg atggtggccg gagagactct gcaagctatc gggatcgtag	1920
tgaaaccgat agagctgggt atgctaattg cagtggctat ggaagtcaa attctgcctt	1980
tggagcacia gcaggccaat acacctatgg tcaaggcacc tatggggcag ctgcttatgg	2040
caccagtagc tatacagctc aagaatatgg tgctggcact tatggagcta gtagcaccac	2100
ctcaactggg agaagttcac agagctctag ccagcagttt agtgggatag gccggtctgg	2160
gcagcagcca cagccactga tgtcacaaca gtttgacag cctccgggag ctaccaatat	2220
gataggttac atggggcaga ctgcctacca atacctcct cctcctcccc ctccctctcc	2280
ttcacgtaaa tgaaaccact caagtggtag tgactccagc agacttaatt acattttaag	2340
gaacactgtc tttccttttt ttttctctt cgccttttct ttttttttcc tttttcttt	2400
tttttttttt aatttttccc cccaaccatc gtgatttgtc ttttcatgca gattagttag	2460
aattcactgc caggtttctt ctgcccacca aaatgatcca gtctggaata acattttgta	2520
aaaaaaaaaa aaatatatat atatatatat agctgactgg aagagattaa tttcttcccc	2580
caacttcttg catgttgaag atatttgagc tatttttcat ctaaaagagt aaggatttag	2640
gcccttttgt gggagcccca tgttttgttt ttctgagttg gtggggaggg agggaggggg	2700
agggctgaat tgttttgcag aggaagatgg catctgtgct ttaaatttct cattactggg	2760
ttagaaaaa aagagggatt gccctgcaca ttttcttttg tgcttttaaa tgtttcttaa	2820
gttgaacag gtttcctcgg gcctgttttg actgattgct ggagtgcatt tgatagttaa	2880
aaattactaa ttggttttat ttcccttcac actctgcctc cccacttctc cccccgttac	2940
tgaaaaataa ccatttttagt gtcaggctag aaattgaatt gctgagtttt gtgtatcctt	3000
taaattaaaa accacaagtg tttattgtag tgggttaaaact gtagcatctc agcatctggg	3060
tggaagctgc ctatatctt tcccagttta actggggacc atctgtgaaa ttaattttcc	3120
atccagacag ctgctgtgag caaatgaaca taaatgctcg ctggaaattt actaaccagt	3180
ttttatatgg acctgcagtg taaaaagcac atttaattat aaacaatata ttcaaaatgg	3240
gcaaatttta ttttcaaagt cagtgtagag ctagattaaa agcaactctt tgccacctac	3300

1209120

tctgcccttt tggcaaagtt accttgaaca aagaatctta agggtttatt aagaactctt	3360
tattttcttc ataccctggt ctctgcagtg ctttctaaca gcttctgggt gcagattttc	3420
ttcggcatcc ttttgactc agcttattac aggtaggtag tgcttaagaa aagtcattgga	3480
ggactaaagc ctaagtcctt ttcacttttc ctccatctga aggtaggtga gttcatcctc	3540
ttcatggtaa tgctgtttta ccaagacttt atagcagatg gacccagaaa gaattttctg	3600
ctattgtggt cactacaaca ggatagggac atcagacagc cccagaaacc ccttcagat	3660
ctgatatggg actattaatt tttatgctgt taattggtat tcattcaciaa tgcagttgaa	3720
gggggaaggc tccactgcat tctttggcta aggcctgaat gcttgctcat ctgtaagatc	3780
tatactcgag gttttgtttt ccttttaaaa ttcttttaggg agagagggat ggtttctgag	3840
gggttctgaa agtatgattc aatgtgcaac atacaggtag gtcttcagca taagctgaaa	3900
tatatgcatg taaaaacttt gacatctttt tttttaattt tccactttct tcttaacttt	3960
acttctcttt ttgtccccc cccatcttac agaagttgag gccaaaggag aatggtaggc	4020
acagaagaaa catggcaaac tgctctgtgc tttcaaacca aagtgttccc cccaaccca	4080
aatttgtcta agcactggcc agtctgttgt gggcattggt ttctacaacc aaattctggg	4140
ttttttctt ctttctttaa acatagaggt accaccacaa gggatgccct actctctgc	4200
agctcttgaa agcatctggt tgagggaaag gtctctgggc aagcaagtgg ttatttggat	4260
tgcttgcttc cttttttcca cctgggacat tgtaatcata aaataacagt aaattccaaa	4320
cctcaaaaac tattatggcc tgagcacagc tgaaatctag cagagttaa ctcttctgcc	4380
tccatgtctg tcacttataa ttcaggttct gctgttggct tcagaacatg agcagaagaa	4440
tcgttttatg ctagttattg cattcatggt tgaaactcaa cttagggaaa gggttccaat	4500
gtattaagca atgggctgct tctccccaat cctccctaac aattcggtgt gtggacttct	4560
catctaaaag gttagtggct tttgcttggg atcagtgtct tctattgatg ttcttgtctg	4620
tctccagaca cattcctggt gcattaagac ttgaaagact tgtagatgtg tgatgttcag	4680
gcacaggatg ctgaaagcta tgttactatt cttagtttgt aaattgtcct tttgatacca	4740
tcattctgtt ttctttttgt aggtataaat aaaaactg ttgacaataa aaaaaaaaaa	4800
aaaaa	4805

<210> 26
 <211> 3676
 <212> DNA
 <213> Homo sapiens

<400> 26	
gagtagaagt gatttggcct cataacttca cagtggttta ccactttgtt ctatgttctg	60
gttttgtaaa ggatagtact ggaatttgcg tctgaagacc aatattggtg taactcctgt	120
cagtatattg gtaaaatgta gcagaggcag gagtttggat gtttggatgg gattccctta	180
ggattctaca gccataaag atcctatttc ctatgcatgt cccaggaatc agtaatcctc	240

	1209120	
ttttactctg ttgggatgag tctttttttg tttctgttca gagtgggttac taacttcacc	300	
ttctttcctc ttgctgtcat ctgcattcgt gcttcccacc tgttgttggc atgtccttta	360	
ccttctcttt ccctgccaca tcaacctaca cactgactca tcattgacgt ggaagatgtg	420	
gaagatgtca agtttgtgat caactatgac tatccaaaca gctcagagga ttatgtgcac	480	
cgtattggcc gaacagcccc tagcaccaac aaggggtaccg cctatacctt cttcacccca	540	
gggaacctaa aacaggccag agagcttatc aaagtgtctgg aagaggccaa tcaggctatc	600	
aatccaaaac tgatgcagct tgtggaccac agaggaggcg gcggaggcgg gggtaagggt	660	
ggtcgttctc gttaccggac cacttcttca gccaacaatc ccaatctgat gtatcaggat	720	
gagtgtgacc gaaggcttcg aggagtcaag gatggtggcc ggagagactc tgcaagctat	780	
cgggatcgta gtgaaaccga tagagctggg tatgctaata gcagtggcta tggaagtcca	840	
aattctgcct ttggagcaca agcaggccaa tacacctatg gtcaaggcac ctatggggca	900	
gctgcttatg gcaccagtag ctatacagct caagaatatg gtgctggcac ttatggagct	960	
agtagacca cctcaactgg gagaagttca cagagctcta gccagcagtt tagtgggata	1020	
ggccggtctg ggcagcagcc acagccactg atgtcacaac agtttgaca gcctccggga	1080	
gctaccaata tgataggtta catggggcag actgcctacc aataccctcc tcctcctccc	1140	
cctcctctc cttcacgtaa atgaaaccac tcaagtggta gtgactccag cagacttaat	1200	
tacattttaa ggaacactgt ctttcctttt ttttctctt tcgccttttc ttttttttc	1260	
ctttttctt ttttttttt taatttttcc cccaaccat cgtgatttgt cttttcatgc	1320	
agattagtta gaattcactg ccaggtttct tctgcccacc aaaatgatcc agtctggaat	1380	
aacattttgt aaaaaaaaaa aaaatatata tatatatata tagctgactg gaagagatta	1440	
atttcttccc ccaacttctt gcatgttgaa gatatttgag ctatttttca tctaaaagag	1500	
taaggattta ggcccttttg tgggagcccc atgttttggt tttctgagtt ggtggggagg	1560	
gagggagggg gagggctgaa ttgttttgca gaggaagatg gcatctgtgc tttaaatttc	1620	
tcattactgg gttagaaaac aaagagggat tgccctgcac attttcttt gtgcttttaa	1680	
atgtttctta agttggaaca ggtttcctcg ggcctgtttt gactgattgc tggagtgcac	1740	
ttgatagtta aaaattacta attggtttta tttcccttca cactctgcct cccacttct	1800	
cccccgta ctgaaaaata accattttag tgtcaggcta gaaattgaat tgctgagttt	1860	
tgtgtatcct ttaaatataa aaccacaagt gtttattgta gtggttaaac tgtagcatct	1920	
cagcatctgg gtggaagctg cctatatattc ttcccagttt aactggggac catctgtgaa	1980	
attaattttc catccagaca gctgctgtga gcaaatgaac ataaatgctc gctggaaatt	2040	
tactaaccag tttttatatt gacctgcagt gtaaaaagca catttaatta taaacaatat	2100	
attcaaaatg ggcaaatttt attttcaa atgcagtgtaga gctagattaa aagcaactct	2160	
ttgccaccta ctctgccctt ttggcaaagt taccttgaac aaagaatctt aagggtttat	2220	
taagaactct ttattttctt cataccctgt tctctgcagt gctttctaac agcttctggg	2280	

1209120

tgcagat	ttt	cttcggcatc	cttttgcact	cagcttatta	caggtaggta	gtgcttaaga	2340
aaagtcat	gg	aggactaaag	cctaagtcct	tttactttt	cctccatctg	aaggtaggtg	2400
agttcatc	ct	cttcatggta	atgctgtttt	accaagactt	tatagcagat	ggacccagaa	2460
agaat	tttct	gctattgtgt	tcactacaac	aggatagggga	catcagacag	ccccagaaac	2520
cccttccaga	tctgat	atgg	gactattaat	ttttatgctg	ttaattggta	ttcattcaca	2580
atgcagttga	aggggga	aagg	ctccactgca	ttctttggct	aaggcctgaa	tgcttgctca	2640
tctgtaagat	ctatactcga	ggttttgttt	tccttttaaa	attcttttagg	gagagagggga		2700
tggtttctga	gggggttctga	aagtatgatt	caatgtgcaa	catacaggta	ggtcttcagc		2760
ataagctgaa	atatatgcat	gtaaaaactt	tgacatcttt	ttttttaatt	ttccactttc		2820
ttcttaactt	tacttctctt	tttgtcccc	ccccatctta	cagaagttga	ggccaagggga		2880
gaatggtagg	cacagaagaa	acatggcaaa	ctgctctgtg	ctttcaaacc	aaagtgttcc		2940
ccccaacccc	aaat	ttgtct	aagcactggc	cagtctgttg	tgggcattgt	tttctacaac	3000
caaattctgg	gtttttttct	tctttcttta	aacatagagg	taccaccaca	agggatgccc		3060
tactctctcg	cagctcttga	aagcatctgt	ttgagggaaa	ggtctctggg	caagcaagtg		3120
gttatttgga	ttgcttgctt	ccctttttcc	acctggggaca	ttgtaatcat	aaaataacag		3180
taaattccaa	acctcaaaaa	ctattatggc	ctgagcacag	ctgaaatcta	gcagagtta		3240
actcttctgc	ctccatgtct	gtcacttata	attcaggttc	tgctgttggc	ttcagaacat		3300
gagcagaaga	atcgttttat	gctagttatt	gcattcatgg	ttgaaactca	acttagggaa		3360
agggttccaa	tgtattaagc	aatgggctgc	ttctcccaa	tcctccctaa	caattcggtg		3420
tgtggacttc	tcatctaaaa	ggtagtggtc	ttttgcttgg	gatcagtgct	ctctattgat		3480
gttcttgctg	gtctccagac	acattcctgt	tgcattaaga	cttgaaagac	ttgtagatgt		3540
gtgatgttca	ggcacaggat	gctgaaagct	atgttactat	tcttagtttg	taaattgtcc		3600
ttttgatacc	atcatcttgt	tttctttttg	taggtataaa	taaaaacact	gttgacaata		3660
aaaaaaaaa	aaaaaa						3676

<210> 27
 <211> 3071
 <212> DNA
 <213> Homo sapiens

<400> 27	ccgccatttt	gtgagaagca	aggtggcctc	cacgtttcct	gagcgtcttc	ttcgcttttg	60
	cctcgaccgc	cccttgacca	cagacatgtc	tcgggatcgg	ttccggagtc	gtggcggtgg	120
	cggtggtggc	ttccacaggc	gtggaggagg	cggcggccgc	ggcggcctcc	acgacttccg	180
	ttctccgccg	cccggcatgg	gcctcaatca	gaatcgcggc	cccatgggtc	ctggcccggg	240
	ccagagcggc	cctaagcctc	cgatcccgcc	accgcctcca	caccaacagc	agcaacagcc	300
	accaccgcag	cagccaccgc	cgcagcagcc	gccaccgcat	cagccgcccgc	cgcattccaca	360
	gccgcatcag	cagcagcagc	cgcgcgccacc	gccgcaggac	tcttccaagc	ccgtcgttgc	420

1209120

tcagggaccc	ggccccgctc	ccggagtagg	cagcgcacca	ccagcctcca	gctcggcccc	480
gccccccact	ccaccaacct	cggggggcccc	gccaggggtcc	gggccaggcc	cgactccgac	540
cccgccgcct	gcagtcacct	cggccccctcc	cggggcgccg	ccaccacccc	cgccaagcag	600
cggggtccct	accacacctc	ctcaggcccg	aggcccgccg	cctccgcccc	cggcagtccc	660
ggggccgggt	ccagggccta	agcaggggccc	aggtccgggt	ggtcccaaag	gcggcaaaat	720
gcctggcggg	ccgaagccag	gtggcgggccc	gggcctaagt	acgcctggcg	gccaccccaa	780
gccgccgcat	cgaggcgggc	gggagccccg	cggggggccgc	cagcaccacc	cgccctacca	840
ccagcagcat	caccaggggc	ccccgccccg	cggggccggc	ggccgcagcg	aggagaagat	900
ctcggaactc	gaggggttta	aagccaatth	gtctctcttg	aggaggcctg	gagagaaaaa	960
ttacacacag	cgatgtcggt	tgtttgttgg	gaatctacct	gctgatata	cgagggatga	1020
attcaaaaga	ctatttgcta	aatatggaga	accaggagaa	gtttttatca	acaaaggcaa	1080
aggattcgga	tttattaagc	ttgaatctag	agctttggct	gaaattgcca	aagccgaact	1140
ggatgataca	cccatgagag	gtagacagct	tcgagttcgc	tttgccacac	atgctgctgc	1200
cctttctgtt	cgtaatcttt	caccttatgt	ttccaatgaa	ctgttggaag	aagcctttag	1260
ccaatttggt	cctattgaaa	gggctgttgt	aatagtggat	gatcgtggaa	gatctacagg	1320
gaaaggcatt	gttgaatttg	cttctaagcc	agcagcaaga	aaggcatttg	aacgatgcag	1380
tgaagggtgt	ttcttactga	cgacaactcc	tcgtccagtc	attgtggaac	cacttgaaca	1440
actagatgat	gaagatgggt	ttcctgaaaa	acttgcccag	aagaatccaa	tgtatcaaaa	1500
ggagagagaa	accctcctc	gttttgccca	gcatggcacg	tttgagtacg	aatattctca	1560
gcatggaag	tctttggatg	aaatggaaaa	acagcaaagg	gaacaagttg	aaaaaaacat	1620
gaaagatgca	aaagacaaat	tggaaagtga	aatggaagat	gcctatcatg	aacatcaggc	1680
aaatcttttg	cgccaagatc	tgatgagacg	acaggaagaa	ttaagacgca	tggagaagact	1740
tcacaatcaa	gaaatgcaga	aacgtaaaga	aatgcaattg	aggcaagagg	aggaaacgac	1800
tagaagagag	gaagagatga	tgattcgtca	acgtgagatg	gaagaacaaa	tgaggcgcca	1860
aagagaggaa	agttacagcc	gaatgggcta	catggatcca	cgggaaagag	acatgcgaat	1920
gggtggcgga	ggagcaatga	acatgggaga	tccttatggg	tcaggaggcc	agaaatttcc	1980
acctctagga	gggtgggtgt	gcatagggtta	tgaagctaata	cctggcggtc	caccagcaac	2040
catgagtggg	tccatgatgg	gaagtgacat	gcgtactgag	cgctttgggc	aggagggtgc	2100
ggggcctgtg	gggtggacagg	gtcctagagg	aatggggcct	ggaactccag	caggatatgg	2160
tagagggaga	gaagagtacg	aaggcccaaa	caaaaaaccc	cgattttaga	tgtgatattt	2220
aggctttcat	tccagtttgt	tttgtttttt	tgttttagata	ccaatctttt	aaattcttgc	2280
attttagtaa	gaaagctatc	tttttatgga	tgtttagcagt	ttattgacct	aatatttgta	2340
aatgggtctgt	ttgggcagggt	aaaattatgt	aatgcagtgt	ttggaacagg	agaatttttt	2400
tttccttttt	atttctttat	tttttctttt	ttactgtata	atgtccctca	agtttatggc	2460

1209120

```

agtgtacctt gtgccactga atttccaaag tgtaccaatt tttttttttt tactgtgctt 2520
caaataaata gaaaaatagt tataatatattg gatcttcaac tttgccattc atgcttctat 2580
gcatattagg ctacgtattc cacattgaaa gcatgagagt gtctaggcct ttgaatggca 2640
tatgccattt ctgggaaatg catctggagg ctaagtattg ctttctacaa ataattgccc 2700
cctttgtttt aaaaagaaga aatgcatatt gaagtagttt gatgatttgt ttggcatata 2760
ggaagcacgc tggtgctaag tattttttta atggttatgt aagcaaagct gaactgtaaa 2820
tcttcaggaa tatgtattaa gattgtggaa tgggtgtaag acaattggta gggggtgaaa 2880
gtgggtttga ttaaattggat cttttatggc cctatgatct atcctttact tgaaagcttt 2940
tgaaaagtgg aaaggtcatt ttgttgcat tccccatttc ttgtttttta aagaccaaca 3000
aatctcaagc cctataaatg gcttgtattg aactttttaca tttgaattaa agatgttaaa 3060
catgaaaaaa a 3071

```

```

<210> 28
<211> 1329
<212> DNA
<213> Homo sapiens

```

```

<400> 28
ggcctgcagt ggacgagcat cgcatagcct gcggggctgg atgctgaccg cccgggccag 60
cacctaggcg gacgcggagc tgtgcagacc agggttcgcg cgggccgggt ggaggctcaa 120
gcggggaccc cggagcgtga gccccggagt cggcggcgct ggggccagag gggccgggag 180
ggagtcggct gaggtggcgg cggagggcga gtggcggcgg aggcgaaggg gcggcgggac 240
ccgggcctgg cccgtatgtg tccttggcgg cctagactag gccgtcgctg tatggtgagc 300
cccaggaggg cggatctggg cccccagaag gacaccgcgc tggatttgcc ccgtaggccc 360
ggccccggcc cctcgggagc agaacagcct tggtgagggtg gacaggaggg gacctcgca 420
gcagacgcgc gcgccagcga cagcagcccc gccccggcct ctggggagcc ggggggcaga 480
ggctgcggag ccccaggagg gtctatcagc cacagtctct gcatgtttcc aagagcaaca 540
ggaaatgaac acattgcagg ggccagtgtc attcaaagat gtggctgtgg atttcaccca 600
ggaggagtgg cggcaactgg accctgatga gaagatagca tacgggggatg tgatgttgga 660
gaactacagc catctagttt ctgtggggta tgattatcac caagccaaac atcatcatgg 720
agtggagggtg aaggaagtgg agcagggaga ggagccgtgg ataattggaag gtgaatttcc 780
atgtcaacat agtccagaac ctgctaaggc catcaaacct attgatcgga agtcagtcca 840
tcagatttgc tctgggccag tggtagtgag tctaagcact gcagtgaagg agttagtaga 900
aaacagtctg gatgctggtg ccactaatat tgatctaaag cttaaggact atggagtgga 960
tctcattgaa gtttcagaca atggatgtgg ggtagaagaa gaaaactttg aaggcttaac 1020
gatgtcacca tttctacctg ccacgcgtcg gtgaagggtg ggactcgact ggtgtttgat 1080
cacgatggga aaatcatcca ggaaaccccc taccaccacc ccagagggac cacagtcagc 1140

```

1209120

gtgaagcagt	tattttctac	gctacctgtg	cgccataagg	aattttcaaag	gaatattaag	1200
aagacgtgcc	tgctttccct	tcgccttctg	ccgtgattgt	cagtttcctg	aggcctcccc	1260
agccatgctt	cctgtacagc	ctgcagaact	gtgagtcaat	taaacctctt	ttcttcataa	1320
attaataaaa						1329

<210> 29
 <211> 1334
 <212> DNA
 <213> Homo sapiens

<400> 29						
ggcctgcagt	ggacgagcat	cgcatagcct	gcggggctgg	atgctgaccg	cccggggccag	60
cacctaggcg	gacgcggagc	tgtgcagacc	agggttcgcg	cgggccgggt	ggagggtcaa	120
gcggggaccc	cggagcgtga	gccccggagt	cggcggcgct	ggggccagag	gggccgggag	180
ggagtcggct	gaggtggcgg	cggaggcgaa	gtggcggcgg	aggcgaaggg	gcggcgggac	240
ccgggcctgg	cccgtatgtg	tccttggcgg	cctagactag	gccgtcgtctg	tatgggtgagc	300
cccagggagg	cggatctggg	cccccagaag	gacacccgcc	tggatttgcc	ccgtaggccc	360
ggccccggcc	cctcgggagc	agaacagcct	tggtgagggtg	gacaggaggg	gacctcgcga	420
gcagacgcgc	gcgccagcga	cagcagcccc	gccccggcct	ctcgggagcc	ggggggcaga	480
ggctgcggag	ccccaggagg	gtctatcagc	cacagtctct	gcattgttcc	aagagcaaca	540
ggaaatgaac	acattgcagg	ggccagtgtc	attcaaagat	gtggctgtgg	atttcaccca	600
ggaggagtgg	cggcaactgg	accctgatga	gaagatagca	tacggggatg	tgatgttgga	660
gaactacagc	catctagttt	ctgtggggta	tgattatcac	caagccaaac	atcatcatgg	720
agtggagggtg	aaggaagtgg	agcagggaga	ggagccgtgg	ataatggaag	gtgaatttcc	780
atgtcaacat	agtccagtac	agaacctgct	aaggccatca	aacctattga	tcggaagtca	840
gtccatcaga	tttgctctgg	gccagtggta	ctgagtctaa	gcactgcagt	gaaggagtta	900
gtagaaaaca	gtctggatgc	tggtgccact	aatattgatc	taaagcttaa	ggactatgga	960
gtggatctca	ttgaagtttc	agacaatgga	tgtggggtag	aagaagaaaa	ctttgaaggc	1020
ttaacgatgt	caccatttct	acctgccacg	cgctcggtgaa	ggttgggact	cgactgggtg	1080
ttgatcacga	tgggaaaatc	atccaggaaa	ccccctaccc	ccaccccaga	gggaccacag	1140
tcagcgtgaa	gcagttatct	tctacgctac	ctgtgcgcca	taagggaattt	caaaggaata	1200
ttaagaagac	gtgcctgctt	ccccttcgcc	ttctgccgtg	attgtcagtt	tcctgaggcc	1260
tccccagcca	tgcttcctgt	acagcctgca	gaactgtgag	tcaattaaac	ctcttttctt	1320
cataaattaa	aaaa					1334

<210> 30
 <211> 1430
 <212> DNA
 <213> Homo sapiens

<400> 30

1209120

ggggcactga	ggagcggcgc	ccgcggggca	gcgaggagcc	cgatgcaggg	ttctgcgcgt	60
catttccggt	cccgcgggcg	ccccgtgaag	cccacctgga	tccgccagcg	ctgtgccact	120
ccccagtgcc	gagctccgag	ctgtctccgc	ggcctcgcgc	ccggccccctc	caccgcgcac	180
ctcttaggcc	ccgcccgcga	gcgtcccttt	gttgtgaagg	cgccggggcc	tagcgctatg	240
cctgcggcgg	agactgcata	aggctctcgc	gtctgcttct	acgctttgcc	tgggagaggg	300
cctggtggcc	tcgttcctgg	cgcccggagt	ccctgctgcg	gccccacccc	cgggcggtca	360
cggtgacca	tgctgccag	cctggaggta	aaatcggttcg	tggctgtggc	ttcagcatgt	420
cgtcctcgg	gaaaacccca	gacttgaag	agctggttcc	tggctccgaa	gagaagccga	480
aaggcaggtc	gcctctcagc	tggggctctc	tggttggtca	ccgaagtga	aagattgttt	540
ttgccaagag	cgacggcggc	acagatgaga	acgtactgac	cgtcaccatc	acggagacca	600
cggtcatcga	gtcagacttg	ggtgtgtgga	gctcgcgggc	gctgctctac	ctcacgctgt	660
ggttcttctt	cagcttctgc	acgctcttcc	tcaacaagta	catcctgtcc	ctgctgggag	720
gagagcccag	catgctaggt	gcggtgcaga	tgctgtccac	cacggttatc	gggtgtgtga	780
aaaccctcgt	tccttgctgt	ttatatcagc	acaaggccccg	gctttcctac	ccaccaact	840
tccttatgac	gatgctgttt	gtgggtctga	tgaggtttgc	aactgtgggt	ttgggttttg	900
tcagcctgaa	aaatgtggcg	gtttcgtttg	ctgagacggt	gaagagctcc	gccccatct	960
tcacggtgat	catgtctcgg	atgattctgg	gggagtacac	aggacgtccc	agtgatcggg	1020
aggagcggga	agagcttcag	ctacaaccag	gacgtggtgc	tgctgcttct	gacagacgga	1080
gtcctgttcc	accttcagag	cgtcacggcg	tacgccctca	tggggaaaat	ctccccggtg	1140
actttcaggt	cccgcaggcc	ctgcaccgag	tcgccttgtc	catggcgctg	ccctgccccca	1200
tgcttcctgc	gtcctgagta	ggaggtatct	ccgagacagg	aaaagtggcc	gctctctctc	1260
actttttctg	gaactcatgg	tggctctcctg	ggcttggtca	ctgtctctca	ccagcatgtt	1320
tctttgtgcg	gtcaggaatt	atttccaaat	gctcctgaag	cctagtgttt	tagtgaacat	1380
tagtgattgt	tagcagtgg	tcaaaaaaaaa	aaaacttttt	tttttttttt		1430

<210> 31
 <211> 1082
 <212> DNA
 <213> Homo sapiens

<400> 31

gactcgactg	gtgtttgatc	acgatgggaa	aatcatccag	aaaaccccct	acccccaccc	60
cagagggacc	acagtcagcg	tgaagcagtt	attttctaca	ctacctgtgc	gccataagga	120
atttcaaagg	aatgttaaga	agacgtgcct	gcttccccct	cgcttctgc	cgtgattgtc	180
agtttcctga	ggcctccccca	gccatgcttc	ctgtacagcc	tgcagaactt	acagaacctg	240
ctaaggccat	caaacctatt	gatcgggaagt	cagtccatca	gatttgctct	gggccagtgg	300
tactgagtct	aagcactgca	gtgaaggagt	tagtagaaaa	cagtctggat	gctggtgcca	360
ctaattattga	tctaaagctt	aaggactatg	gaatggatct	cattgaagtt	tcaggcaatg	420

1209120

gatgtggggt	agaagaagaa	aacttcgaag	gcttaatctc	tttcagctct	gaaacatcac	480
acatctaaga	ttcaagagtt	tgccgacctt	actcgggttg	aaacttttgg	ctttcggggg	540
aaagctctga	gctcactttg	tgactgagt	gatgtcacca	tttctacctg	ccacgtatcg	600
gcgaagggtg	ggactcgact	ggtgtttgat	cacgatggga	aaatcatcca	gaaaaccccc	660
tacccccacc	ccagagggac	cacagtcagc	gtgaagcagt	tattttctac	gctacctgtg	720
cgccataagg	aatttcaaag	gaatattaag	aagaaacgtg	cctgcttccc	cttcgccttc	780
tgccgtgatt	gtcagcttct	tgagggctcc	ccagccatgc	ttcctgtaca	gcctgcaaaa	840
ctgatgtaac	tggagagcta	cgggcatgca	gaagttggaa	gacgagggaa	ggcatcacag	900
aggctgtgag	gtgaaccgac	ttcaaggaat	gggtccttcc	cttcagagcc	acatgtgtgc	960
gggacaccca	gacagaaaac	acaaatgcaa	agtcaagtgg	agggcatttg	gaaggagcag	1020
tgaagccaag	ccaggaaaca	ccaagatggc	gagccagtgt	ggttgtagag	attgtagaga	1080
gg						1082

<210> 32
 <211> 1946
 <212> DNA
 <213> Homo sapiens

<400> 32						
agacactgcc	cgctctccgg	gactccgcgc	cgctccccgt	tgccctccag	gactgagaaa	60
ggggaaaggg	aagggtgcca	cgtccgagca	gccgccttga	ctggggaagg	gtctgaatcc	120
cacccttggc	attgcttggg	ggagactgag	atacccgctg	tccgctcgcc	tccttggttg	180
aagattttct	cttccctcac	gtgatttgag	ccccgttttt	attttctgtg	agccacgtcc	240
tcctcgagcg	gggtcaatct	ggcaaaagga	gtgatgcgct	tcgcctggac	cgctgctcctg	300
ctcgggcctt	tgagctctg	cgcgctagt	cactgcgccc	ctcccgccgc	cggccaacag	360
cagccccgcg	gcgagccgcc	ggcggtccg	ggcgctggc	gccagcagat	ccaatgggag	420
aacaacgggc	aggtgttcag	cttgctgagc	ctgggctcac	agtaccagcc	tcagcgccgc	480
cgggacccgg	gcgccgccgt	ccctggtgca	gccaacgcct	ccgcccagca	gccccgact	540
ccgatcctgc	tgatccgcga	caaccgcacc	gccgcggcgc	gaacgcggac	ggccgggtca	600
tctggagtca	ccgctggccg	ccccaggccc	accgcccgtc	actggttcca	agctggctac	660
tcgacatcta	gagcccgcga	agctggcgcc	tcgcgcgcgg	agaaccagac	agcgccggga	720
gaagtccctg	cgctcagtaa	cctgcggccg	cccagccgcg	tggacggcat	ggtgggcgac	780
gacccttaca	accctacaa	gtactctgac	gacaaccctt	attacaacta	ctacgatact	840
tatgaaaggc	ccagacctgg	gggcaggtag	cggcccggtg	acggcactgg	ctacttccag	900
tacgggtctc	cagacctggg	ggccgacccc	tactacatcc	aggcgtccac	gtacgtgcag	960
aagatgtcca	tgtacaacct	gagatgcgcg	gcggaggaaa	actgtctggc	cagtacagca	1020
tacagggcag	atgtcagaga	ttatgatcac	agggtgctgc	tcagatttcc	ccaaagagt	1080

1209120

aaaaaccaag	ggacatcaga	tttcttacct	agccgaccaa	gatattcctg	ggaatggcac	1140
agttgtcatc	aacattacca	cagtatggat	gagtttagcc	actatgacct	gcttgatgcc	1200
aacacccaga	ggagagtggc	tgaaggccac	aaagcaagtt	tctgtcttga	agacacatcc	1260
tgtgactatg	gctaccacag	gcgatttgca	tgtactgcac	acacacaggg	attgagtcct	1320
ggctgttatg	atacctatgg	tgcagacata	gactgccagt	ggattgatat	tacagatgta	1380
aaacctggaa	actatatcct	aaaggctcagt	gtaaacccca	gctacctggg	tcctgaatct	1440
gactatacca	acaatgttgt	gcgctgtgac	attcgctaca	caggacatca	tgcgtatgcc	1500
tcaggctgca	caatttcacc	gtattagaag	gcaaagcaaa	actcccaatg	gataaatcag	1560
tgcctgggtg	tctgaagtgg	gaaaaaatag	actaacttca	gtaggattta	tgtattttga	1620
aaaagagaac	agaaaacaac	aaaagaatgt	ttgtttggac	tgttttcaat	aacaaagcac	1680
ataactggat	tttgaacgct	taagtcatca	ttacttggga	aatttttaat	gtttattatt	1740
tacatcactt	tgtgaattaa	cacagtgttt	caattctgta	attacatatt	tgactctttc	1800
aaagaaatcc	aaattttctca	tgttcctttt	gaaattgtag	tgcaaaatgg	tcagtattat	1860
ctaaatgaat	gagccaaaat	gactttgaac	tgaaactttt	ctaaagtgct	ggaactttag	1920
tgaaacataa	taataatggg	tttata				1946

<210> 33
 <211> 1819
 <212> DNA
 <213> Homo sapiens

<400> 33

tattcaataa	ggactgttat	ttctagtata	gagaggaggg	ctcctaggcc	tggctaagca	60
gtttaagata	aaatgcaaaa	tgacccaatt	caggatgatt	atagttgggt	taaatttggt	120
tgctgaggca	caaacaaaag	tgttggattc	tgtagttttt	gttgatgatta	cagaacacat	180
gcagtatctt	ccagaaccct	ttgataaagc	tgaagtaagg	atgggctcac	atggcccatg	240
tgagtaagaa	gctgtgttga	cagagtggac	gataccttca	attatggctt	aacaaaaaat	300
gcctgaaaat	ggaataactt	agaaggaact	cttcctttta	aggatttaat	ggcaggtgca	360
gtggcttacg	cctgtaatcc	cagcactttg	ggagcctgag	gcagaagatg	gcttgagccc	420
aggagtttga	ggcagcgggt	agccataatc	ataccactgc	acttaagcct	gggcaacaca	480
atgagaccct	gtctcctgtc	tttaaaaaaa	agagacagag	acctacctgt	atgctaggag	540
catccttctc	actgtagggt	ggatgtgggt	gttctgtttt	aaatttgctg	aattgtgact	600
ttttttcttt	ttcttttttt	tttttttttt	tttgtttttt	tttgaggcag	ggtctcactc	660
tgtcgcccag	gctggagtgc	agtgggtgtga	tctcggtcca	cttcaacctc	cacctcctgg	720
gttcaagcga	ttctcctgcc	tcagcctcct	gagtagctgg	gattacaggc	gtgcaccacc	780
atgcctggct	aatttttgta	tttttagtag	agatgggggt	tcacaatgtt	gccaggttg	840
gtctcgaacc	gctgacctta	agcgatccgc	ctgccttggc	ctccccaagg	tgctggaatt	900
acaggcatga	gccaccgcgc	ccggctgact	tttttttttt	ctttctttct	ttttgagaca	960

1209120

gagttttgct cagtctccca ggctggagtg caatggcaac aacatgggctc gctgcagcct	1020
caatctgctg tgctcaggta ttccctcctgc ctcagcctcc tgagtagctg ggactacagg	1080
cgcacgcccac cacacctggc tattgtggat tttaagaaat tttttttgta gagacagggg	1140
cttactatgt tgcccagggt gttcttgaac tcttgggctc cagagagcct cccatctcag	1200
cctcccaaag tgctgagatt ataggcgtga gccaccacac ttagcctatt gtgacttttt	1260
agagtctcta atactttctt ttagggcact aaaaacttaa tcttagatcc agttgggtatt	1320
catttggttg aatgaagtgg tagggaccta ccttaatttt ttttccagggt ttttgtgatt	1380
gaataagttc cagatactca aagcgaccta gatcagtgat gaaatttttg actgcatttg	1440
gacctatttc tgggatctcc ttttactgat ttctctgtat attcatgagc aaccttaaat	1500
tatttttagac tatttaatta ttatgttcta ttttctggaa agttttgtcc ttcactcttc	1560
tttttcaaaa ttttcctgat tgttatttca taaatatttt ttcacagaat caactgggtt	1620
tgaacctcaa ttactttata gggttaattta gagagaattg acttttataaa ttatatataa	1680
ggccaggcat ggtagctcat gcttataatc ctggcatttt ggggggctga ggcagatgga	1740
tcacatgatc ccaggatttg agactggcct gggcaacata gtgagatctc atctcttaaa	1800
aaaaaaaaaa aaaaaaaaaa	1819

<210> 34
 <211> 3609
 <212> DNA
 <213> Homo sapiens

<400> 34	
gagccgcggc cgcgcgagg aagcgaagga ggcgggagcg gagacctcgc tgcgctcatg	60
gcgtcgcccc ggcattcaga tttgggagaa gtagccccag aaataaaagc atcagagaga	120
cgaacagctg tggccattgc agatttgga tggagagaaa tggaaggaga tgattgagag	180
ttccgttatg gagatggtac aaatgaggct caggacaatg attttccaac agtggagaga	240
agcaggcttc aagaaatgct gtcacttttg ggcctagaga cgtaccagggt ccagaaaactc	300
agcctccagg actctctgca gatcagtttt gacagtatga agaactgggc ccctcagggt	360
cccaaagact tgccctggaa tttcctcagg aagttgcagg ccctcaatgc tgatgccagg	420
aataccacta tgggtgctgga cgtgctccca gacgccaggc ctgtggagaa ggagagccag	480
atggaagagg agatcatcta ctgggaccca gctgatgacc ttgctgccga catttattcc	540
ttttctgagc tgcccccccc tgatacgcca gtgaaccctt tagaccttct ctgtgccctg	600
ctgtctcct cagacagttt cctgcaacaa gaaatagcgt tgaaaatggc cctctgccag	660
tttgactcc cactcgtgtt gcctgactcg gagaaccact accatacatt tctgctgtgg	720
gccatgcggg gcattgtgag gacatggtgg tcccagcccc caaggggcat ggggagcttc	780
cgggaagaca gcgtgggtct gtccagggcg cccgccttcg ccttcgtgag catggacgctc	840
agtagcaact ccaagtccca gcttctcaac gccgtcctca gcccgggcca caggcagtgg	900

1209120

gactgcttct	ggcatcggga	cctcaacttg	ggcaccaatg	cccgggagat	ttcggatggg	960
ttggtagaaa	tttcctggtt	ttttcccagc	ggaagggagg	acttggacat	tttcccagaa	1020
cctgtggcct	ttctgaacct	gagaggtgac	atcgggtctc	actggctgca	gtttaagctc	1080
ttgacagaaa	tctcctccgc	tgtgtttata	ttgactgaca	atatcagtaa	gaaggaatac	1140
aaattgctgt	actccatgaa	ggagtcaacc	acaaaatact	acttcatcct	gagtccctac	1200
cgtgggaagc	gcaacacaaa	cctgagattt	ctgaataagt	taattcctgt	gctgaaaata	1260
gaccactcac	atgtcctggt	aaaggtcagc	agcactgaca	gcgacagctt	cgtgaagagg	1320
atccggggcca	tcgttgggaa	tgtgctgcgg	gcaccctgca	ggcgggtatc	tgtggaggac	1380
atggcgcacg	cagcccgcaa	actgggccta	aaggtcgacg	aggactgtga	ggagtgtcag	1440
aaagcgaag	accgatgga	gaggattacc	aggaataatca	aagactcgga	tgcctacaga	1500
agggacgagc	tgaggctgca	gggggacccc	tggagaaagg	cagcccaagt	ggagaaggag	1560
ttctgccagc	tccagtgggc	cgtggacccc	cctgagaagc	acagggtctga	gctgaggcgg	1620
cggctgctag	aacttcgaat	gcagcagaac	ggccatgata	cctcctcggg	ggtgcaggag	1680
ttcatctcgg	ggatcagcag	ccccctcttg	agtgagaagc	agtacttcct	gagggtggatg	1740
gagtggggcc	tggcacgggt	ggcccagccg	cgactgagac	agcctccgga	gacgcttctc	1800
accctgagac	caaagcatgg	gggcaccaca	gacgtggggg	agccgctctg	gcctgagccc	1860
ctaggggtgg	aacacttctt	gcgggagatg	ggacagtttt	atgaggctga	gagctgtctt	1920
gtggaggcag	ggaggctgcc	ggcaggccag	aggcgttttg	cccacttccc	aggcttggcc	1980
tcggagctgc	tgctgacagg	gctgcctctg	gagctaatac	atgggagcac	gctgagcatg	2040
cccgtccgct	gggtcacagg	gctcctgaag	gagctgcacg	tccgactgga	gagacggtca	2100
aggctggtgg	ttctgtcaac	cgtcgggggtg	ccaggcacgg	gcaagtccac	actcctcaac	2160
accatgtttg	ggctgcgggt	tgccacaggg	aagagctgcg	gtcctcgagg	ggccttcatg	2220
cagctcatca	cagtggctga	gggcttcagc	caggacctgg	gctgtgacca	catcctgggtg	2280
atagactccg	ggggcttgat	agggtggggcc	ttgacgtcag	ctggggacag	atttgagctg	2340
gaggcttcct	tggccactct	gctcatggga	ctgagcaatg	tcaccgtgat	cagtctagct	2400
gaaaccaagg	acattccagc	agctattctg	catgcatttc	tgagggttaga	aaaaacgggg	2460
cacatgccc	actaccagtt	tgtataccag	aaccttcatg	atgtatctgt	tcccggccct	2520
aggcccagag	acaagagaca	gctcctggat	ccacctgggtg	acctgagcag	ggctgcagcc	2580
cagatggaga	aacagggcga	cggcttccgg	gcactggcag	gcctggcctt	ctgcgaccct	2640
gagaagcagc	acatctggca	catcccaggc	ctgtggcacg	gagcacctcc	catggccgca	2700
gtgagcttgg	cctacagtga	agccatattt	gaattgaaga	gatgcctact	cgaaaacatc	2760
aggaacggct	tgtcgaacca	aaacaaaaac	atccagcagc	tcattgagct	ggtgagacgg	2820
ctgtgagtgt	gcagagaaac	ccagttcagg	tgtaggaggc	tgctgtgggc	agccctgtct	2880
gatggggcac	ccgtgtgggg	ctgtgctctg	gtgcctgaga	atggctgggtg	cccaatcgac	2940

1209120

atgagaagac	gaggaaaaga	caggggttgg	agtctcctca	acagtgttaa	aagaggaagt	3000
gacctcacag	accagctcag	agatgttacc	aagaatatca	cagccccccag	ggtagggaga	3060
caagcagcag	tttgttctgt	ctcagctcct	gtcaaggatc	ctgcgggggtg	ggccctctgt	3120
atagctgctc	tctgtcactg	gcccctggag	tgggagcagc	gtccttagtc	actgcaggcc	3180
caggcgggca	ggtggtccca	ggacagaggt	ggggaagtgtg	tcctgaggaa	gcagaagtag	3240
gccttgctcc	cgcccaaccc	aagggcctcc	agtggaccag	cattcaagat	gtgagtgtccc	3300
gtggtgtgca	aggcactccc	atggcaccgt	atttattgac	tgatctgtga	aggcttccct	3360
gacccctgcc	caggaagagt	tcactggctg	ctctgttggtg	ccccacagca	ctttgttata	3420
cctctgccac	acacttcacg	cagcgcgttg	taactcatgt	gtttacatgt	ctgtcccccc	3480
agactgtgag	ctccttgagg	gcagggactg	tacattctcc	agctctgtgt	ccccagggcc	3540
tggcacattg	tagacgctta	ataaatgtct	gttaaataaa	tgagtgcaca	aaaaaaaaaa	3600
aaaaaaaaa						3609

<210> 35
 <211> 4976
 <212> DNA
 <213> Homo sapiens

<400> 35						
gggcgggcg	gccgcaggct	gtcgggctgg	ggctgaggct	gaggctgagg	ttgaggcggc	60
ggcggcgggc	gccgggtgcc	cgggacagcg	acgcagcgcg	ccggcgggcc	cgacagggcc	120
agcgagagcc	ccgcagcccc	ccgcagctgc	cgccctcgcc	cggccggggc	ggagagcacg	180
gcggcgggag	cgcggcctta	ggaggcggcc	ggagcgggtg	gcacagctcg	gcgcggagcg	240
tcctgtcagg	cggcgggcga	gggcgtcgcg	gactctcccc	gcgatgatgc	cgatgatatt	300
aactgttttc	ttgagcaaca	atgaacagat	tttaacagaa	gttcctataa	caccggaaac	360
aacctgtcga	gatgtttgtag	aattttgcaa	ggaacctgga	gaaggcagct	gccatttagc	420
tgaagtgtgg	aggggaaatg	aacgtcccat	accctttgat	catatgatgt	acgaacatct	480
tcagaaatgg	ggtccacgga	gggaagaagt	gaaatttttc	cttcgacacg	aggactcccc	540
aactgagaac	agtgaacaag	gtggccgtca	gacccaagag	caacgaactc	agagaaatgt	600
aataaatgta	cctggagaaa	aacgtactga	aaatgggggt	gggaatccac	gtgttgaact	660
taccctctca	gagctccaag	atatggcagc	taggcaacag	cagcagattg	aaaatcagca	720
gcagatgttg	gttgccaagg	aacagcgttt	acattttcta	aagcaacagg	agcgccgtca	780
gcagcagtct	atttctgaaa	atgaaaagct	tcagaaattg	aaagaacgag	ttgaagccca	840
ggagaacaag	ctgaagaaaa	ttcgtgcaat	gagaggacaa	gtcgactaca	gcaaaatcat	900
gaacggcaat	ctgtctgctg	aaatagaaa	gttcagtgtc	atgttccagg	aaaagaagca	960
ggaagtacag	actgcaattt	taaggggtga	tcagcttagt	cagcaattgg	aagatttaaa	1020
gaaaggaaaa	ctgaatgggt	tccagtctta	caatggcaaa	ttgacggggc	cagcggcggt	1080
ggagttaaaa	agactgtacc	aagaactaca	gattcgtaac	caacttaacc	aggaacaaaa	1140

1209120

ttcaaaactt	cagcagcaga	aggaactctt	aaataagcgc	aacatggagg	tggccatgat	1200
ggacaagcga	atcagtgaac	tgcgtgaacg	tctctatggg	aaaaaaattc	agctgaaccg	1260
tgtgaatggc	acgtcatcac	cacagtcccc	tctgagcaca	tcgggcaggg	tcgctgctgt	1320
ggggccttat	atccagggtc	ccagtgccgg	aagctttcct	gtgctggggg	accctataaa	1380
gccccagtct	ctcagtattg	cctcaaatgc	tgctcatgga	agatccaaat	ccgctaataa	1440
tggaaaactg	ccaacattaa	aacagaattc	tagctcttcc	gtgaaaccag	tgcagggtggc	1500
cgggtgcagac	tggaaggatc	cgagcgtgga	ggggctctgtc	aagcagggga	ctgtctccag	1560
ccagcctgtg	cccttctcag	cactgggacc	cacggagaag	ccgggcatcg	agatttgtaa	1620
agtgccacct	cccattcccg	gtgtaggcaa	gcagctgcct	ccaagctatg	ggacataccc	1680
aagtcctaca	cctctgggtc	ctgggtcgac	aagctccctg	gaaaggagga	aggaaggcag	1740
cttgcccagg	cccagtgcag	gcctgccaag	tcgacagagg	cccaccctgc	tgcccgccac	1800
aggcagcacc	ccccagccag	gctcctcaca	acagattcag	cagaggattt	ccgtaccgcc	1860
aagtcccacg	tacccgccag	cgggaccacc	tgcatttcca	gctggggaca	gcaagcctga	1920
actcccactg	acagtggcca	ttaggccttt	cctggctgat	aaaggggtcaa	ggccacagtc	1980
tcccaggaaa	ggacccccaga	cagtgaattc	aagttccata	tactccatgt	acctccagca	2040
agccacacca	cctaagaatt	accagccggc	agcacacagc	gccttaaata	agtcagttaa	2100
agcagtgtat	ggtaagcccc	ttttaccttc	gggttcaacc	tctccatcgc	cgctgccgtt	2160
tcttcacggg	tactgtcca	cgggcacacc	acagcctcag	ccaccttcag	aaagtactga	2220
gaaagagcct	gagcaggatg	gccccgccgc	ccccgcagat	ggcagcaccg	tggagagcct	2280
gccacggcca	ctcagcccca	ccaagctcac	gcccattcgt	cattcgccac	tgcgctacca	2340
gagtgatgca	gacctggagg	ccctccgcag	gaagctggcc	aacgcgcccc	ggccccctgaa	2400
aaagcgcagc	tccatcacag	agccccgagg	ccccggcggg	cccaacatcc	agaagctgct	2460
gtaccagcgc	ttcaacaccc	tggccgggtg	catggagggc	acccctttct	accagcccag	2520
cccctcccag	gacttcatgg	gcaccttggc	cgatgtggac	aatggaaaca	ccaatgccaa	2580
tggaaaacctg	gaagagctcc	cccctgcccc	gcccacagcc	ccactccccg	ctgagcctgc	2640
cccgtcatca	gatgccaatg	ataatgagtt	accttcccc	gaaccagagg	agctcatctg	2700
tccccaaacc	acccaccaaa	ctgccgagcc	ggcagaggac	aataacaaca	acgtggccac	2760
ggtccccacc	acggagcaga	tcccagatcc	tgtggctgag	gccccatctc	caggggaaga	2820
gcaggctcct	ccagcacctc	ttccccctgc	cagccaccct	cctgccacct	ccacgaacaa	2880
gcggaccaac	ttgaagaagc	ccaactcgga	gcggacgggg	cacgggctga	gagtccgggt	2940
taacccccctg	gactgtctcc	tagacgcgtc	tctggaagga	gagttcgatc	tgggtgcagag	3000
gatcatctat	gaggtggaag	atcccagcaa	gccaacgac	gaagggatca	ccccactgca	3060
caacgccgtc	tgcgccggcc	accatcacat	cgtgaagttc	ctgctggatt	ttggtgtcaa	3120
cgtgaatgct	gctgatagtg	atggatggac	gccgctgcac	tgcgctgcct	cttgtaacag	3180

1209120

cgttcacctc	tgcaaacagc	tggtggagag	tggtgccgcc	atttttgcct	caaccataag	3240
cgacattgaa	actgctgcag	acaagtgtga	ggagatggag	gaaggctaca	tccagtgtctc	3300
ccagtttcta	tatgggggtgc	aggaaaagct	gggtgtgatg	aacaaagggtg	tggcgtatgc	3360
tctgtgggac	tacgaggccc	agaacagtga	cgagctgtcc	ttccacgaag	gggacgccct	3420
caccatcctg	aggcgcaagg	acgaaagcga	gactgagtgg	tggtgggctc	gccttgagaga	3480
ccgggagggc	tatgtgcccc	aaaacctgct	ggggctgtat	ccacggatca	aaccccgaca	3540
gcgaacactc	gcctgaactt	ccttttggag	caccgcatgg	tcttgccagc	taccaggagc	3600
cacttaagag	attattgtgc	tgttttccag	gaaagctgca	gctagaaaat	ggctttaatg	3660
gtgtctactt	tagcagacag	cgtccacaat	gtgaatccta	cagtttccag	gtgaggccct	3720
ttctccagtt	tgcccattaa	ctgggagagg	tactttcgcc	tccaaggact	gaattttgcc	3780
aattactata	aatccaaata	aataccact	ttcaaaacac	ccaccctct	tgccattaag	3840
aagtcccata	acccccggtt	ggttgccagt	gaagacagaa	gctcttactg	acttggtccc	3900
gaggccatca	ccccctccag	cagtgaacac	tgtccgccgc	tgtgaggcct	gctcccctgc	3960
gaccgccctg	ccccccgtca	ccgaatcgga	cactcatcct	ttctcacact	tcccacacat	4020
gatccttctt	cccttcatca	ccaaaggagc	ctctgtatgg	aaacatgtcc	agtgttgctg	4080
cccagtgtgt	atgcctccca	gtaccactc	tgctcggccg	ccttgggggt	tccgcttcct	4140
gttccagttc	acctaaaggc	tgattgtgca	ggcccagcac	tgtggctgga	ctgccgcgcc	4200
acgggcacca	ggacccctaa	gaccaagtga	caactgggag	agcctcagca	tatactcttc	4260
tcctccgatc	tcacagcctg	tcatgctgct	cagtgtgggt	ctcacccctg	caagctcaaa	4320
ttcagttccc	tgaatggagt	cagggtgctg	aggccgtggc	agcggagggt	ggttgggggt	4380
ggggctgggg	gtggactggg	gtgagggcag	accagggcca	ggtagacggg	gctgtttggg	4440
gcctgaagga	tggcagacgc	ctggtgtcag	gaggggccgc	caccaaggag	cagcagctgg	4500
ggcagaggag	ctgggggtcag	gggccacccc	tctctgccga	tctccctgcc	tgggctggct	4560
gtgagggcac	ctttgtccca	ggcccagcct	caaggcaagg	agggcgcttc	actgaggtgt	4620
gaattgtacg	tacaggcttt	ttatatacca	aaagtatttt	ttgactagac	cattcaaagc	4680
tacccgaact	atgttgga	tttttttttt	ctcattaaaa	tacaggccct	taggctctat	4740
ttttcatgta	tgagtcgtgt	gtaatttatg	taaaaatgtg	tgtacagact	cactgatgca	4800
gcactgtagc	ccatcacctt	ggagcactga	ctgtacatag	tgtggtgaag	aaaagtgaac	4860
gcccttgtag	agcagcccga	ccacaggagc	atggccgctg	ccagcccaga	cgctgctgac	4920
gctgtgtaaa	tgtgcacaat	aaacccgtct	caccccgcca	aaaaaaaaaa	aaaaaa	4976

<210> 36
 <211> 6659
 <212> DNA
 <213> Homo sapiens
 <400> 36

1209120						
cgcgcgggcg	cggggggacgg	cgcgggggcc	gcctggctgg	agcagccaga	ggggatagct	60
tcgtcgagaa	cggaggacac	cggcgggtcca	gggtcctggg	cagtcgcgcc	agagctgagc	120
ggagggcgcg	gcgcgagAAC	gaatctttgt	gacattctct	ctcagcattc	tttatcccct	180
gtttgctgaa	gacttcgaca	aaagctggtc	ttagctgttg	gcattctcct	gagaaaagga	240
tagcttcaga	aatcagaaaa	acatttggga	ggtgtctagc	ccagtggacc	ttctgaagag	300
caatgctaag	aagacgtttg	gtttaaagaa	ttaaaaggaa	gaacaactta	agagcttctt	360
caaagtttcc	cgcataaaaa	ttacttaaac	gttgcacaca	acgtttcaca	aaatcttttg	420
tgaaagaaga	aaaggaaatt	cagtgtgtga	gtctcagcag	gagttaagct	aatgcagctt	480
aaaataatgc	cgaaaaagaa	gcgcttatct	gcgggcagag	tgccccgat	tctcttcctg	540
tgccagatga	ttagtgcact	ggaagtacct	cttgatccaa	aacttcttga	agacttggtg	600
cagcctccaa	ccatcaccca	acagtctcca	aaagattaca	ttattgaccc	tcgggagaat	660
attgtaatcc	agtgtgaagc	caaagggaaa	ccgcccccaa	gcttttcctg	gacccgtaat	720
gggactcatt	ttgacatcga	taaagaccct	ctggtcacca	tgaagcctgg	cacaggaacg	780
ctcataatta	acatcatgag	cgaagggaaa	gctgagacct	atgaaggagt	ctatcagtgt	840
acagcaagga	acgaacgcgg	agctgcagtt	tctaataaca	ttgttgccg	cccattccaga	900
tcaccattgt	ggaccaaaaga	aaaacttgaa	ccaatcacac	ttcaaagtgg	tcagtcttta	960
gtacttccct	gcagaccccc	aattggatta	ccaccaccta	taatattttg	gatggataat	1020
tcctttcaaa	gacttccaca	aagtgagaga	gtttctcaag	gtttgaatgg	ggacctttat	1080
ttttccaatg	tcctcccaga	ggacacccgc	gaagactata	tctgttatgc	tagatttaat	1140
catactcaaa	ccatacagca	gaagcaacct	atttctgtga	aggtgatattc	agtggatgaa	1200
ttgaatgaca	ctatagctgc	taatttgagt	gacactgagt	tttatgggtgc	taaatcaagt	1260
agagagaggc	caccaacatt	tttaactcca	gaaggcaatg	caagtaacaa	agaggaatta	1320
agaggaaatg	tgctttcact	ggagtgcatt	gcagaaggac	tgcttaccct	aattatttac	1380
tgggcaaagg	aagatggaat	gctacccaaa	aacaggacag	tttataagaa	ctttgagaaa	1440
accttgacga	tcattcatgt	ttcagaagca	gactctggaa	attaccaatg	tatagcaaaa	1500
aacgcattag	gagccatcca	ccataccatt	tctgttagag	ttaaagcggc	tccatactgg	1560
atcacagccc	ctcaaaatct	tgtgctgtcc	ccaggagagg	atgggacctt	gatctgcaga	1620
gctaattggc	accccaaacc	cagaattagc	tggttaacaa	atggagtccc	aatagaaatt	1680
gccccctgatg	accccagcag	aaaaatagat	ggcgatacca	ttattttttc	aaatgttcaa	1740
gaaagatcaa	gtgcagtcta	tcagtgcaat	gcctctaattg	aatatggata	tttactggca	1800
aacgcatttg	taaatgtgct	ggctgagcca	ccacgaatcc	tcacacctgc	aaacacactc	1860
taccagggtca	ttgcaaacag	gcctgcttta	ctagactgtg	ccttcttttg	gtctcctctc	1920
ccaaccatcg	agtggtttaa	aggagctaaa	ggaagtgtct	ttcatgaaga	tattttatgtt	1980
ttacatgaaa	atggaacttt	ggaaattcct	gtggcccaaa	aggacagtac	aggaacttat	2040

1209120

acgtgtgttg	caaggaataa	attagggatg	gcgaagaatg	aagttcactt	agaaatcaaa	2100
gacacctacat	ggatcggttaa	acagcccgaa	tatgcagttg	tgcaaagagg	gagcatgggtg	2160
tcctttgaat	gcaaagtga	acatgatcac	accttatccc	tcactgtcct	gtggctgaag	2220
gacaacaggg	aactgcccag	tgatgaaagg	ttcactgttg	acaaggatca	tctagtggta	2280
gctgatgtca	gtgacgatga	cagcgggacc	tacacgtgtg	tggccaacac	cactctggac	2340
agcgtctccg	ccagcgtgt	gcttagcggt	gttgctccta	ctccaactcc	agctcccgtt	2400
tacgatgtcc	caaatcctcc	ctttgactta	gaactgacag	atcaacttga	caaaagtgtt	2460
cagctgtcat	ggaccccagg	cgatgacaac	aatagcccca	ttacaaaatt	catcatcgaa	2520
tatgaagatg	caatgcacaa	gccagggctg	tggcaccacc	aaactgaagt	ttctggaaca	2580
cagaccacag	cccagctgaa	gctgtctcct	tacgtgaact	actccttccg	cgtgatggca	2640
gtgaacagca	ttgggaagag	cttgcccagc	gaggcgtctg	agcagtattt	gacgaaagcc	2700
tcagaaccag	ataaaaaccc	cacagctgtg	gaaggactgg	gatcagagcc	tgataatttg	2760
gtgattacgt	ggaagccctt	gaatggtttc	gaatctaata	ggccaggcct	tcagtacaaa	2820
gttagctggc	gccagaaaga	tggtgatgat	gaatggacat	ctgtggttgt	ggcaaatgta	2880
tccaaatata	ttgtctcagg	cacgcccaacc	tttgttccat	acctgatcaa	agttcaggcc	2940
ctgaatgaca	tggggtttgc	ccccgagcca	gctgtagtca	tgggacattc	tggagaagac	3000
ctcccaatgg	tggctcctgg	gaacgtgctg	gtgaatgtgg	tgaacagtac	cttagccgag	3060
gtgcactggg	accagttacc	tctgaaaagc	atccgaggac	acctacaagg	ctatcggatt	3120
tactattgga	agaccagag	ttcatctaaa	agaaacagac	gtcacattga	gaaaaagatc	3180
ctcaccttcc	aaggcagcaa	gactcatggc	atgttgccgg	ggctagagcc	ctttagccac	3240
tacacactga	atgtccgagt	ggtcaatggg	aaaggggagg	gcccagccag	ccctgacaga	3300
gtctttaata	ctccagaagg	agtccccagt	gctccctcgt	ctttgaagat	tgtgaatcca	3360
acactggact	ctctcacttt	ggaatgggat	ccaccgagcc	acctgaatgg	cattttgaca	3420
gagtacacct	taaagtatca	gccaattaac	agcacacatg	aattaggccc	tctggtagat	3480
ttgaaaattc	ctgccaaaca	gacacgggtg	actttaaaaa	atttaaattt	cagcactcga	3540
tataagtttt	atttctatgc	acaaacatca	gcaggatcag	gaagtcaa	tacagaggaa	3600
gcagtaacaa	ctgtggatga	agctgggtatt	cttcacactg	atgtagggtg	aggcaaagt	3660
caagcagtaa	atcccaggat	cagcaatctt	actgctgcag	ctgctgagac	ctatgccaat	3720
atcagttggg	aatatgaggg	accagagcat	gtgaactttt	atgttgaata	tggtgtagca	3780
ggcagcaaag	aagaatggag	aaaagaaatt	gtaaatgggt	ctcggagctt	ctttgggtta	3840
aagggtctaa	tgccaggaac	agcatacaaa	gttcgagttg	gtgctgtggg	ggactctggg	3900
tttgtgagtt	cagaggatgt	gtttgagaca	ggcccagcga	tggcaagccg	gcaggtggat	3960
attgcaactc	agggtcgggt	cattgggtctg	atgtgtgctg	ttgctctcct	tatcttaatt	4020
ttgctgattg	tttgcttcat	cagaagaaac	aagggtggta	aatatccagt	taaagaaaag	4080

1209120						
gaagatgccc	atgctgaccc	tgaaatccag	cctatgaagg	aagatgatgg	gacatttggg	4140
gaatacagtg	atgcagaaga	ccacaagcct	ttgaaaaaag	gaagtcgaac	tccttcagac	4200
aggactgtga	aaaaagaaga	tagtgacgac	agcctagttg	actatggaga	aggggttaat	4260
ggccagttca	atgaggatgg	ctcctttatt	ggacaataca	gtggtaagaa	agagaaaagag	4320
ccggctgaag	gaaacgaaa	ctcagaggca	ccttctcctg	tcaacgccat	gaattccttt	4380
gtttaatttt	taagctcttt	gccaatattc	catttctcta	gaatgtttat	cctaagcact	4440
tgtttgtcag	ccctctcata	ctatgaacat	atgggtagag	agtatatattt	ctgctgtatg	4500
ttagtattat	gagaatagtt	acagcaaaaa	cataactcag	tcaaatgata	tgttaatatg	4560
aactggaatg	caaagtgcac	actttttcat	tcaaaatggg	tattcttgat	ttcctcagaa	4620
ctgataaaaa	ataatgcaac	atcaccaaca	gatcctgtta	tttcctctgc	aggatacagt	4680
tcaatatgat	gcatgaaaaa	tgctccacat	ttaaaggaca	tacccgtgta	tgttatgaaa	4740
acatggtttg	atactttgtt	tatactaccc	tcagctgaac	ccctatatat	gaattccgtt	4800
ttcattgtca	agaatgttac	tgtagtattc	tctagaactt	caatgtcttt	gtggacattg	4860
ttgtgaaatt	ggtgactatg	tatagctgtc	gttagtcttt	ttgggagact	gttaggaaca	4920
gtttgtacag	tatatacttg	ctaaatgagt	tcattatgac	agtcacattg	ctgatgctta	4980
ctgagaacta	ttacctactc	ttggctcctg	ttactccgta	ggcttcttaa	tcttccaggc	5040
attacagcag	cacagtgttc	tactttttac	atcatttcta	tgttcggttg	tttttaggca	5100
taaacaatgt	gtattgcagt	gcatttcggc	atttgtgcca	tactgaaaga	atcaaaaaca	5160
aatcatccaa	attaaatttc	aaacattatt	tcagagaaca	cagggcaaga	cacatacagt	5220
gccttcagat	attaagcatt	ccacaacatc	gtgcattctg	tatcagctgg	tccagtccat	5280
tctgggtcct	agattactgt	cattgtctaa	aagtaacttt	taaaaagcag	agttcatgaa	5340
aactgcaatg	ctgggaaaag	aaggaaacat	gaaaataaaa	ataagacagt	ttattagaaa	5400
tagcatttcc	tcataagcat	aaaaagaaaa	tctttgttgc	caactgaagc	acatgatgat	5460
tttgtgggtcc	tttatggttt	ctattacatt	cagtaagaaa	gatgtcaaca	tgctagaaaa	5520
ttaattttta	aactaagtta	ttccaacact	aaaagcatac	aacagcatgc	caacagtaat	5580
atattattct	ccaagacttt	acctatgtaa	gtgttcaaaa	ctctgcagca	ttaaacacag	5640
tgtatgcaaa	ttgttatgga	tacatttcag	aatctaagaa	atcaggcaag	tgcttaaaaag	5700
gccaacggtc	caagggatta	catctgcagt	ttaaaaagta	aatatatatt	ctatcgtatt	5760
cataaacaat	atctatcaaa	tgggttacct	ccaaatatga	aaatctataa	caacctatgg	5820
ttgaagggaat	gctcagtttc	atttgccaat	aaattggttt	ctcataactt	gcatcaagtt	5880
taatttttaag	taaagctttt	tatatgtaga	tattttgttg	aatttgtaaa	tacacttaaa	5940
atgtagatgc	tatatgctta	taggtgttac	atacaataaa	acatgcaatg	tttatgttgt	6000
actgtataag	aggtaagcta	attaatgcag	tgaatgggat	tggaaagcat	ctacttaaat	6060
atctattggg	ttccccctc	ccccacctt	ttttgctgtg	aaactgaaat	agtgaacttt	6120

1209120

tctacgtatt	gacagcagat	ttttcgatga	aatcttcaga	gctttgccta	tggggcacag	6180
taggcctagt	aacctggcat	gtttgatata	tgtaggtaaa	gcataattta	aagtaatccc	6240
aggtaaagat	ggccctaaat	actttcatgt	ctctatattc	atttttcaca	gatccacctg	6300
tctcttgaaa	atataaaaaag	acaaaaacagg	tttgccttgg	catcagagag	cacaaagatt	6360
aaaagttact	ttaaattttgc	caatatTTTTg	ggagaacaat	aaaactacat	tttttcctct	6420
tccatactgg	tagatgcgaa	atttatctgt	gcatgaaagg	gtcacttctg	taatagtgca	6480
acagatttgg	tattaaaaat	taaatgtggt	tttaaaaagt	cctctctctt	ttgtaattta	6540
tgttcccaat	tgagtgtgaa	tgtccaagta	atggtgtatg	taatggtaca	ggcaaatgtg	6600
actggatttc	cctcaaaaaa	gtaactatta	aacagtcttg	atctctttgt	gacttttaa	6659

<210> 37
 <211> 2821
 <212> DNA
 <213> Homo sapiens

<400> 37

gaaaccgttt	ctacatggct	ggctctaagc	cagatgatat	ttcatagtgc	aaagagggat	60
agaacctcac	tggtggccaa	atgtgattat	atgctataac	cctgtgcccc	tactctgaca	120
cccccccca	agcagttacc	ctctgttggg	agcctgcagc	tttctttggt	tgtttcttta	180
attatacaga	cagtaggata	tgcaccta	ctagcatata	gaaaaatcag	agaaacaatg	240
caaccaagag	tgctgttttc	atttgtttct	tctgcatcct	tttaatggaa	ttttgtaggt	300
ctcttgaaag	tgatgcagaa	gaccacaagc	ctttgaaaaa	aggaagtcga	actccttcag	360
acaggactgt	gaaaaaagaa	gatagtgcg	acagcctagt	tgactatgga	gaaggggtta	420
atggccagtt	caatgaggat	ggctccttta	ttggacaata	cagtggtaag	aaagagaaaag	480
agccggctga	aggaaacgaa	agctcagagg	caccttctcc	tgtcaacgcc	atgaattcct	540
ttgtttaatt	tttaagctct	ttgccaatat	tccatttctc	tagaatgttt	atcctaagca	600
cttgtttgtc	agccctctca	tactatgaac	atatgggtag	agagtatatt	ttctgctgta	660
tgtagtagt	atgagaatag	ttacagcaaa	aacataactc	agtcaaatga	tatgttaata	720
tgaactggaa	tgcaaagtgc	atactttttc	attcaaaatg	ggtattcttg	atttcctcag	780
aactgataaa	aaataatgca	acatcaccaa	cagatcctgt	tatttcctct	gcaggataca	840
gttcaatatg	atgcatgaaa	aatgctccac	atttaaagga	catacccggtg	tatgttatga	900
aaacatgggt	tgatactttg	tttatactac	cctcagctga	accctatat	atgaattccg	960
ttttcattgt	caagaatgtt	actgtagtat	tctctagaac	ttcaatgtct	ttgtggacat	1020
tggttgtaaa	ttggtgacta	tgtatagctg	tcgttagtct	ttttgggaga	ctgttaggaa	1080
cagtttgtac	agtatatact	tgctaaatga	gttcattatg	acagtcacat	tgctgatgct	1140
tactgagaac	tattacctac	tcttggctcc	tgttactccg	taggcttctt	aatcttccag	1200
gcattacagc	agcacagtgt	tctacttttt	acatcatttc	tatgttcggt	tgtttttagg	1260
cataaacaat	gtgtattgca	gtgcatttcg	gcatttgtgc	catactgaaa	gaatcaaaaa	1320

1209120

caaatcatcc aaattaaatt tcaaacatta tttcagagaa cacagggcaa gacacataca	1380
gtgccttcag atattaagca ttccacaaca tcgtgcattc tgtatcagct ggtccagtcc	1440
attctgggtc ctagattact gtcattgtct aaaagtaact tttaaaaagc agagttcatg	1500
aaaactgcaa tgctgggaaa agaaggaaac atgaaaataa aaataagaca gtttattaga	1560
aatagcattt cctcataagc ataaaaagaa aatctttgtt gccaaactgaa gcacatgatg	1620
atcttggtt cctttatggt ttctattaca ttcagtaaga aagatgtcaa catgctagaa	1680
aattaatttt aaaactaagt tattccaaca ctaaaagcat acaacagcat gccaacagta	1740
atatattatt ctccaagact ttacctatgt aagtgttcaa aactctgcag cattaacaa	1800
cgtgtatgca aattgttatg gatacatttc agaactaag aaatcaggca agtgcttaaa	1860
aggccaacgg tccaagggat tacatctgca gtttaaaaag taaatatata ttctatcgta	1920
ttcataaaca atatctatca aatgggttac ctccaaatat gaaaatctat aacaacctat	1980
ggttgaagga atgctcagtt tcatttgcca ataaattggt ttctcataac ttgcatcaag	2040
tttaatttta agtaaagctt ttatatgta gatattttgt tgaatttgta aatacactta	2100
aaatgtagat gctatatgct tatagggtgt acatacaaat aaacatgcaa tgtttatgtt	2160
gtactgtata agaggtaagc taattaatgc agtgaatggg attggaaagc atctacttaa	2220
atatctattg gggtccccc tccccccacc ttttttgctg tgaaactgaa atagtgaact	2280
tttctacgta ttgacagcag atttttcgat gaaatcttca gagctttgcc tatggggcac	2340
agtaggccta gtaacctggc atgtttgata tatgtaggta aagcataatt taaagtaatc	2400
ccaggtaaag atggccctaa atactttcat gtctctatat tcatttttca cagatccacc	2460
tgtctcttga aaatataaaa agacaaaaca ggtttgcctt ggcatcagag agcacaaaga	2520
ttaaaagtta ctttaaattt gccaatattt tgggagaaca ataaaactac attttttcct	2580
cttccatact ggtagatgcg aaatttatct gtgcatgaaa gggtcacttc tgtaatagtg	2640
caacagattt ggtattaaaa attaaatgtg gttttaaaag ttcctctctc ttttgtaatt	2700
tatgttccca attgagtgtg aatgtccaag taatgggtgta tgtaatggta caggcaaatg	2760
tgactggatt tccctcaaaa aagtaactat taaacagtct tgatctcttt gtgactttta	2820
a	2821

<210> 38
 <211> 6296
 <212> DNA
 <213> Homo sapiens

<400> 38	
cgcgcgggag cgggggacgg cgcaggggcc gcctggctgg agcagccaga ggggatagct	60
tcgtcgagaa cggaggacac cggcgggtcca gggtcctggg cagtcgcgcc agagctgagc	120
ggagggcgcg gcgcgagAAC gaatctttgt gacattctct ctgagcattc tttatcccct	180
gtttgctgaa gacttcgaca aaagctgggtc ttagctgttg gcattctcct gagaaaagga	240

			1209120			
tagcttcaga	aatcagaaaa	acattttggga	ggtgtctagc	ccagtggacc	ttctgaagag	300
caatgctaag	aagacgtttg	gtttaaagaa	ttaaaaggaa	gaacaactta	agagcttctt	360
caaagtttcc	cgcataaaaa	ttacttaaac	gttgacacaca	acgtttcaca	aaatcttttg	420
tgaaagaaga	aaaggaaatt	cagtgtgtga	gtctcagcag	gagttaagct	aatgcagctt	480
aaaataatgc	cgaaaaagaa	gcgcttatct	gcgggcagag	tgcccctgat	tctcttcctg	540
tgccagatga	ttagtgcact	ggaagtacct	cttgatctgg	tacagcctcc	aaccatcacc	600
caacagtctc	caaaagatta	cattattgac	cctcgggaga	atattgtaat	ccagtgtgaa	660
gccaaaggga	aaccgcccc	aagcttttcc	tggacccgta	atgggactca	ttttgacatc	720
gataaagacc	ctctgggtcac	catgaagcct	ggcacaggaa	cgctcataat	taacatcatg	780
agcgaaggga	aagctgagac	ctatgaagga	gtctatcagt	gtacagcaag	gaacgaacgc	840
ggagctgcag	tttctaataa	cattgttgtc	cgcccatcca	gatcaccatt	gtggaccaa	900
gaaaaacttg	aaccaatcac	acttcaaagt	ggtcagtctt	tagtacttcc	ctgcagaccc	960
ccaattggat	taccaccacc	tataatattt	tggatggata	attcctttca	aagacttcca	1020
caaagtgaga	gagtttctca	aggtttgaat	ggggaccttt	atttttcaa	tgtcctcca	1080
gaggacaccc	gcgaagacta	tatctgttat	gctagattta	atcatactca	aaccatacag	1140
cagaagcaac	ctatttctgt	gaagggtgatt	tcagtggatg	aattgaatga	cactatagct	1200
gctaatttga	gtgacactga	gttttatggg	gctaaatcaa	gtagagagag	gccaccaaca	1260
tttttaactc	cagaaggcaa	tgcaagtaac	aaagaggaat	taagaggaaa	tgtgctttca	1320
ctggagtgca	ttgcagaagg	actgcctacc	ccaattattt	actgggcaaa	ggaagatgga	1380
atgctaccca	aaaacaggac	agtttataag	aactttgaga	aaaccttgca	gatcattcat	1440
gtttcagaag	cagactctgg	aaattaccaa	tgtatagcaa	aaaacgcatt	aggagccatc	1500
caccatacca	tttctgttag	agttaaagcg	gctccatact	ggatcacagc	ccctcaaaat	1560
cttgtgctgt	ccccaggaga	ggatgggacc	ttgatctgca	gagctaattg	caaccccaaa	1620
cccagaatta	gctgggtaac	aaatggagtc	ccaatagaaa	ttgcccctga	tgaccccagc	1680
agaaaaatag	atggcgatac	cattattttt	tcaaagtgtc	aagaaagatc	aagtgcagtc	1740
tatcagtgca	atgcctctaa	tgaatatgga	tatttactgg	caaacgcatt	tgtaaatgtg	1800
ctggctgagc	caccacgaat	cctcacacct	gcaaacacac	tctaccaggt	cattgcaaac	1860
aggcctgctt	tactagactg	tgctttcttt	gggtctcctc	tcccaaccat	cgagtgggtt	1920
aaaggagcta	aaggaagtgc	tcttcatgaa	gatattttatg	ttttacatga	aaatggaact	1980
ttggaaattc	ctgtggccca	aaaggacagt	acaggaaactt	atacgtgtgt	tgcaagggaat	2040
aaattaggga	tggcgaagaa	tgaagtacac	ttagaaatca	aagatcctac	atggatcggt	2100
aaacagcccg	aatatgcagt	tgtgcaaaga	gggagcatgg	tgtcctttga	atgcaaagtg	2160
aaacatgatc	acaccttata	cctcactgtc	ctgtggctga	aggacaacag	ggaactgccc	2220
agtgatgaaa	ggttcactgt	tgacaaggat	catctagtgg	tagctgatgt	cagtgcagat	2280

1209120

gacagcggga cctacacgtg tgtggccaac accactctgg acagcgtctc cgccagcgct	2340
gtgcttagcg ttgttgatgt cccaaatcct ccctttgact tagaactgac agatcaactt	2400
gacaaaagtg ttcagctgtc atggacccca ggcgatgaca acaatagccc cattacaaaa	2460
ttcatcatcg aatatgaaga tgcaatgcac aagccagggc tgtggcacca ccaaactgaa	2520
gtttcttgaa cacagaccac agcccagctg aagctgtctc cttacgtgaa ctactccttc	2580
cgcgtgatgg cagtgaacag cattgggaag agcttgccca gcgaggcgctc tgagcagtat	2640
ttgacgaaag cctcagaacc agataaaaac cccacagctg tggaaggact gggatcagag	2700
cctgataatt tgggtgattac gtggaagccc ttgaatggtt tcgaatctaa tgggccaggc	2760
cttcagtaca aagttagctg gcgccagaaa gatggtgatg atgaatggac atctgtggtt	2820
gtggcaaatg tatccaaata tattgtctca ggcacgcca cctttgttcc atacctgatc	2880
aaagttcagg ccctgaatga catgggggtt gccccgagc cagctgtagt catgggacat	2940
tctggagaag acctcccaat ggtggctcct gggaaacgtgc gtgtgaatgt ggtgaacagt	3000
accttagccg aggtgcactg ggacccagta cctctgaaaa gcatccgagg acacctacaa	3060
ggctatcgga ttactattg gaagaccag agttcatcta aaagaaacag acgtcacatt	3120
gagaaaaaga tcctcacctt ccaaggcagc aagactcatg gcatgttgcc ggggctagag	3180
ccctttagcc actacacact gaatgtccga gtggtcaatg ggaaagggga gggcccagcc	3240
agccctgaca gagtctttaa tactccagaa ggagtcccca gtgctccctc gtctttgaag	3300
attgtgaatc caacactgga ctctctcact ttggaatggg atccaccgag ccacccgaat	3360
ggcattttga cagagtacac cttaaagtat cagccaatta acagcacaca tgaattaggc	3420
cctctggtag atttgaaaat tcctgccaac aagacacggg ggactttaaa aaatttaaat	3480
ttcagcactc gatataagtt ttatttctat gcacaaacat cagcaggatc aggaagtcaa	3540
attacagagg aagcagtaac aactgtggat gaagcgatgg caagccggca ggtggatatt	3600
gcaactcagg gctggttcac tgggtctgatg tgtgctgttg ctctccttat cttaattttg	3660
ctgattgttt gcttcatcag aagaaacaag ggtggtaaata atccagttaa agaaaaggaa	3720
gatgcccatg ctgaccctga aatccagcct atgaagggaag atgatgggac atttggagaa	3780
tacagtgatg cagaagacca caagcctttg aaaaaaggaa gtcgaactcc ttcagacagg	3840
actgtgaaaa aagaagatag tgacgacagc ctagttgact atggagaagg ggttaatggc	3900
cagttcaatg aggatggctc ctttattgga caatacagtg gtaagaaaga gaaagagccg	3960
gctgaaggaa acgaaagctc agaggcacct tctcctgtca acgccatgaa ttcctttggt	4020
taatttttaa gctctttgcc aatattccat ttctctagaa tgtttatcct aagcacttgt	4080
ttgtcagccc tctcatacta tgaacatatg ggtagagagt atattttctg ctgtatgtta	4140
gtattatgag aatagttaca gcaaaaacat aactcagtca aatgatatgt taatatgaac	4200
tggaatgcaa agtgcatact ttttcattca aaatgggtat tcttgatttc ctcagaactg	4260
ataaaaaata atgcaacatc accaacagat cctgttattt cctctgcagg atacagttca	4320

1209120

atatgatgca	tgaaaaatgc	tccacattta	aaggacatac	ccgtgtatgt	tatgaaaaca	4380
tggtttgata	ctttgtttat	actaccctca	gctgaacccc	tatatatgaa	ttccgttttc	4440
attgtcaaga	atgttactgt	agtattctct	agaacttcaa	tgtctttgtg	gacattgttg	4500
tgaaattggt	gactatgtat	agctgtcggt	agtctttttg	ggagactgtt	aggaacagtt	4560
tgtacagtat	atacttgcta	aatgagttca	ttatgacagt	cacattgctg	atgcttactg	4620
agaactatta	cctactcttg	gctcctgtta	ctccgtaggc	ttcttaatct	tccaggcatt	4680
acagcagcac	agtgttctac	tttttacatc	atttctatgt	tcggttggtt	ttaggcataa	4740
acaatgtgta	ttgcagtgca	tttcggcatt	tgtgccatac	tgaaagaatc	aaaaacaaat	4800
catccaaatt	aaattttcaa	cattattttca	gagaacacag	ggcaagacac	atacagtgcc	4860
ttcagatatt	aagcattcca	caacatcggt	cattctgtat	cagctgggtc	agtccattct	4920
gggtcctaga	ttactgtcat	tgtctaaaag	taacttttaa	aaagcagagt	tcatgaaaac	4980
tgcaatgctg	ggaaaagaag	gaaacatgaa	aataaaaaata	agacagttta	ttagaaaatag	5040
catttcctca	taagcataaa	aagaaaatct	ttgttgccaa	ctgaagcaca	tgatgatttt	5100
gtggtccttt	atggtttcta	ttacattcag	taagaaagat	gtcaacatgc	tagaaaatta	5160
attttaaaaac	taagttattc	caacactaaa	agcatacaac	agcatgccaa	cagtaatata	5220
ttattctcca	agactttacc	tatgtaagt	ttcaaaaactc	tgcagcatta	aacaacgtgt	5280
atgcaaattg	ttatggatac	atttcagaat	ctaagaaatc	aggcaagtgc	ttaaaaggcc	5340
aacgggtccaa	gggattacat	ctgcagttta	aaaagtaa	atatattcta	tcgtattcat	5400
aaacaatatc	tatcaaattg	gttacctcca	aatatgaaaa	tctataacaa	cctatggttg	5460
aaggaatgct	cagtttcatt	tgccaataaa	ttgggtttctc	ataacttgca	tcaagtttaa	5520
ttttaagtaa	agctttttat	atgtagatat	tttgttgaat	ttgtaaatac	acttaaaatg	5580
tagatgctat	atgcttatag	gtgttacata	caaataaaca	tgcaatgttt	atgttgact	5640
gtataagagg	taagctaatt	aatgcagtga	atgggattgg	aaagcatcta	cttaaataatc	5700
tattggggttc	ccccctcccc	ccaccttttt	tgctgtgaaa	ctgaaatagt	gaacttttct	5760
acgtattgac	agcagatttt	tcgatgaaat	cttcagagct	ttgcctatgg	ggcacagtag	5820
gcctagtaac	ctggcatggt	tgatatatgt	aggtaaagca	taatttaaag	taatcccagg	5880
taaagatggc	cctaaatact	ttcatgtctc	tatattcatt	tttcacagat	ccacctgtct	5940
cttgaaaata	taaaaagaca	aaacagggtt	gccttggtcat	cagagagcac	aaagattaaa	6000
agttacttta	aatttgccaa	tattttggga	gaacaataaa	actacatttt	ttcctcttcc	6060
atactggtag	atgcgaaatt	tatctgtgca	tgaaagggtc	acttctgtaa	tagtgcaaca	6120
gatttggtat	taaaaattaa	atgtgggttt	aaaagttcct	ctctcttttg	taatttatgt	6180
tcccaattga	gtgtgaatgt	ccaagtaatg	gtgtatgtaa	tggtacaggc	aatgtgact	6240
ggatttccct	caaaaaagta	actattaaac	agtcttgatc	tctttgtgac	ttttaa	6296

1209120

<211> 2581
<212> DNA
<213> Homo sapiens

<400> 39
agcgcctgcg cactgcgccg ccggctgggg tgctgggggc ggggcagggg caggtgtagc 60
ctctgtgcct cgttgtcccc tggcgctacc cggacatctc tcagggtgcc ggcaccatga 120
agatctggac ttcggagcac gtctttgacc acccgaggga aactgttaca acagctgcaa 180
tgcagaaata cccaaaccct atgaacccaa gtgtgggttg agttgatgtg ttggacagac 240
atatagatcc ctctggaaag ttgcacagcc acagacttct cagcacagag tggggactgc 300
cttccattgt gaagtctctt attggtgcag caagaacgaa aacatatgtg caagaacatt 360
ctgtagttga tcctgtagag aaaacaatgg aacttaaadc tactaatatt tcatttacia 420
acatggtttc agtagatgag agacttatat acaaaccaca tcctcaggat ccagaaaaaa 480
ctgttttgac acaagaagcc ataattaccg tgaaaggagt tagcctcagc agttaccttg 540
aaggactgat ggcaagtacg atatcctcaa atgctagtaa aggccgagaa gcaatggaat 600
gggtaataca taaattaaat gctgagattg aagaactgac agcctcagca agaggaacca 660
taaggactcc aatggcagca gcagcgtttg cagagaagtg atcgtgacag ttggtagaca 720
acatcgggta ctccagggtct ctccaaactg actatatatt tatttggtat tttaaaaaa 780
caactatatt ttgggtagtt tttttttttt tttttttgat aagttggtgt aaggctatgt 840
gacttgatca aaacagatgc agggcctcta aataaaaggg atcatctgaa attaatgttg 900
tttgaaatta ctatctgatt ttgaggggttc cagtatttct gtgaaaattc aacaagaact 960
ccttggaac tggtattgat attcagctct ctttaaggtag atttttcaag cttttcatac 1020
attggaactc cacctgactt tggaccaacc ccagaacaga gcagagccac ctctataga 1080
cgccattgc cctgctgctg tacacttcag cagcttgac aagggagctc acttaaaagg 1140
agaaattgtg tagtttttaa atatatatttg tgtaaaatac cttactatgc tataaaccac 1200
cattaaaaac cagtgttttg atttggtact taaatatatt tggagtgaat attatcacta 1260
aagtaacatg actccaacaa aagtatggtt tcattataaa agagtactgt attgatttgc 1320
ccaagttttg taacttagta aaggatttaa cttccttgga tttgtacttt gtgatttagt 1380
atgctgtatc gtgggctggt tatgttaact gaaaaaaata aagtcattac ctgagttttg 1440
cagtgtctta acttaaacag aagaacagct gttcacatct tttagcattt tacatttgcc 1500
taacttaaaa attgccatgt gtcaaaatca tggttttgta attgctaagg catgatatgt 1560
caggttattt gaatataatt actttttgaa gtaattgtga ccacaaaaca tcttttttac 1620
atgaaggagc tgtgtatcat ttgaaattac tcaaatgatg tcttgctctg aggcataaat 1680
cccaggtagt tagtgttttt aataatatgg tgccactgca ggatttgggg gcgggtgggga 1740
agaacaagca taatggtagg gggaggcttg gcctgaaact aaccactgag tgaattgcac 1800
tgcaggtttt acttaacggg aattccttat ttgggatgtc aagagggcag ctgcaaactg 1860
aaaaacaatc cagtaaatgt actttgtttt atgtattgta gcaggcaatt aactactaaa 1920

1209120

taatagcttt gacatttgca attggtgcat agagactatt tttgctagaa gatgattagc	1980
tcttgccctt attttacagt gcttagtggtg ataaacttct agtcattgtt cctatccaag	2040
agaccagtta atatatgtac ataaaccaca gaaatagtat aacacactat ttttaaatta	2100
tcgttttcct acttaaattt tgtttagctt aagacttctt aggacatttg taaaagcagg	2160
ttaaatttaa taaggtttct gatttttttt tgtaaccgga gatagttttt acaagtgaag	2220
taacatttca gctaaataaa acatcgctaa ataattgata tttgatgaaa atctgctttg	2280
tataatttct gtaaattatc cttgttctga aaaagggtgta atgccctaata atttttaaat	2340
ccttatcctt tgatttttta aaaactgacc tattgataaa actataaatt ttcattttcc	2400
agtgcagtta gttacctttt taaacataaa tgcacaacaa gcaaatgaat ttaagagaac	2460
taaactggaa taagtgttca taaatgaaac ccttggacta ttttaataaag ttgaaatgtg	2520
aattaaggaa aacttttggt aataaaaact ttcttttaag tgaaaaaaaa aaaaaaaaaa	2580
a	2581

<210> 40
 <211> 2150
 <212> DNA
 <213> Homo sapiens

<400> 40	
agctccggcc ccgaccggaa gccccaccgc accgtcaggg acgcggactc gggagtgcgc	60
acattcgcag cccgggcagc cctgctgcgc accgggcctc gcgccccgcg ccccgcgcc	120
cgccccgcg gccccgcacc ggcctccagg atcatgtggt atgtcagcac caggggcgta	180
gccccacggg tcaactttga gggggccctc ttctctggct atgcacctga cgggggcctc	240
tttatgcctg aagagctccc acagttaggac agaggggaccc tgtgccagtg gagcacactc	300
tcctatcctg gcctgggtgaa ggagctgtgt gccctcttca ttggctctga gtccttcca	360
aaagatgaat taaatgatct gatcgaccga gccttcagca gattccgtca cagagaagtg	420
gtccatctgt ccaggttgag gaatgggctg aacgtgttgg agctgtggca tggcgtcaca	480
tatgcattta aggacctgtc cctgtcctgc acaacacagt tcctgcagta cttcctggag	540
aagagggaga agcacgtcac tgtggttgta ggaacatctg gggacacagg aagtgtgcc	600
attgagagtg ttcaaggggc aaagaacatg gacattatcg ttctgtgcc caaaggcac	660
tgcacaaaga ttcaggagct ccagatgaca acggtgctga agcagaacgt acatgtgttt	720
ggagtggagg gaaacagcga tgagctcgat gagccgatca agactgtgtt tgccgatgtg	780
gcttttgtca agaagcaca tctgatgagc ctgaattcga tcaactggtc ccgggtcctg	840
gtgcagatgg cccatcactt ctttgcttac ttccagtgtg cgccatcctt ggacacacat	900
cccctacccc tgggtggagg gtgtgtgcca acaggggctg ccggtaacct tgcagctggg	960
tacattgttc aaaagatagg cctgcccac cgtctggctg tggcagtga cgcgaatgac	1020
atcatccaca ggactgtcca gcaggagac ttctctctct ctgaggctgt taaatcaacc	1080

	1209120	
ttggcatcag ctatggacat tcaggtgccc tacaacatgg agaggggtgtt ctggctgctc	1140	
tctggctctg acagccaggt gacaagagcc ctcatggagc agtttgaaag gacccaaagt	1200	
gtgaatctgc ccaaggaact gcacagcaag ctttcagagg cagtgcacatc cgtgtcagtg	1260	
tcggatgaag ccatcaccca gaccatgggc cgctgctggg atgagaacca gtacttgctg	1320	
tgccccact cagcgggtggc cgtgaactac cattaccagc agatagacag gcagcagccc	1380	
agcactcccc ggtgctgcct cgccccctgcc tctgcagcca agttcccga agctgtcctg	1440	
gctgctggcc tgaccctga gactcccgcg gagatcgtag ccctggagca caaggagaca	1500	
cgctgcaccc tgatgcggag aggtgacaac tggatgctga tgcttcggga caccattgag	1560	
gaccttagcc gacagtggag gagtcatgcc ctcaacacct cccagtagcc tggctggagg	1620	
tggttttctt taggtttcag atcccaggaa gatgcacctt ctgagctgcc ttgtgcaccc	1680	
tccccattaa gcgtaggtta ggaggtttcc gggaggctgc tcagctggat ctggagccag	1740	
ctggctttgc tccgttccct ggctagtctg tgcctgggtca ccaggggaggc tgagtgaggg	1800	
gctgtgaaca gttgccggaa gcacccccctc cctccccggc ccgtgcagca gtgtctgagc	1860	
tgtagtgaaa gtttcagggc ctgcaaaaga agaggcttgg gcacaggact gaccatggct	1920	
ccagggggtt aggaccccag acctgtgaag gtggggagcag ctcaccacct tcacgcaggc	1980	
tttgtagtgt ctctgagcct tagttgattt tggcccccaa accaaatcca aaggttctgg	2040	
cccaccttgt cagaggcttc caccctgctc acatgttggg aatccctgga ataaaatgct	2100	
tgttcagtgt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	2150	

<210> 41
 <211> 2368
 <212> DNA
 <213> Homo sapiens

<400> 41	
agccgccaca ctttcccaag cccgcaggcg cccccccaa caccagcgct gcacccccga	60
cccatcccc gcggccccct ccaggagaaa aaatgaaacc agactggccg aggagggggg	120
cggcaggggac caggggtgcg agcagaggtg agggagacgg gacttacttt gcgaggcgcg	180
gtgcagggcg ccgccgacga gaaataaagg ccccgatacg ggctgcctgg agcccccgga	240
gcgcagcaat gtcagggctc cagtccgggc ggcgttggcg gccgcagggg acggggacgg	300
gcgcgcgtgc ggcgggcgct ctgcgtgcgc tccggctcgg gccccggctc cgcgcggctc	360
cgctcctggc tccccctctg ctccctggc caactccgga cagtcacatg acgccggcgc	420
cgctcgtct gcgagcctcc cggggctggc gggagaataa cttgtctgac taccagtatt	480
cttggtatgca gaagtgtga agatgagcac acacacgtac ggagaatttc tggagaattc	540
agctgctcag aacaagaact gagatccaga gagatgatga ctttgcccat agaccaaaca	600
aagaaataca tgtttcagtc ctgtgtcctc ctgctatgtg tgtccggaat tgggtgggttc	660
ttggtctcac tgactccaag aatgaagctg cggaccctcg cggaccgtgt gtgaatgcct	720
gctctgtgag ccctcagaat ctactggctg aatgagtgcg tggaggaaat gtgctcagag	780

1209120

ctgctgtgtg	tcatcctgtg	tttgaagtgc	tcctgcagct	atcattcatc	cagttaagaa	840
tttgaagaag	tgtgtgcaca	aagacggagt	ctcactctgt	tgcccaggct	ggagtgcagt	900
ggcacaatct	cggctcactg	caacctctac	ctcctggatt	caagcggttt	tcctgcctca	960
gcctccagag	taacagggat	tacaggcata	ctccaccttg	ccctgctgat	tttgtatttt	1020
tagtagagac	aagagtttca	ccatgttggc	caggctggtc	ttgaactcct	gacctcaagt	1080
gatccactgc	ctcagcctcc	caaagtgctg	ggattatagg	cgtgagccac	tgcgccctggc	1140
caaagtctct	actttttaat	caatgttttc	caaaataggg	atttttgcta	tgtgcttttag	1200
aaattagaga	acaaacgggtg	ataatatatg	ctaaacttaa	aattagtatg	cctcctttta	1260
tagacaacaa	gaactttgtc	acttcccagt	ttgtcttgtc	attcaggagg	ctcagagcta	1320
cgatctgtgc	ccactcgtgc	tgcctcttct	taactttgat	ttcctgaagc	agcgatttca	1380
tctccgtttc	ccctcatcac	ctgttctttt	aactgtttta	aaacagcatt	acatgttggt	1440
gcaagtggcc	tcaaattctt	tttggtagaa	gggaaattgt	aatccatgag	aagaaaaaaaa	1500
ttttcctaac	tattctcagg	tgtgtttaag	ggctgcattc	catgatgcta	tcagtgcctt	1560
ctttcagctc	acaggatatc	ggccatgtta	atgagtctga	tgttgctagt	atcacaggca	1620
ccggaaaata	tgcacattat	gctggagcat	tagaatgcaa	cagaaagagc	cctgggcttg	1680
gagtatgcag	aactggttct	tgttacaact	cctcttacta	gtgggctctg	gaagaaaaca	1740
cattgaattc	atgatcatgg	ttaacctttg	gagagagaga	ggagaccagg	atgaaggagc	1800
cagtcgaaga	tcctgttcaa	gtgtacactg	agccagcagg	ttcaccagaa	agctattgag	1860
cgtttgctgg	aacacattat	gcagggtgaa	tttcttctgg	aatgttgcca	aggatttttt	1920
atgcttctgt	ggcaggcatt	tcttgaacat	tgtcatttag	ccaagcaaag	aagattttct	1980
taaaggatag	aaagtgttta	aaaatttttg	tttgtttgaa	gatagggttaa	atggctatat	2040
gatctcagga	taagacagag	aaaatcactt	atttctctaa	gtgatctgat	taggttagtg	2100
atgttttgcc	tttaaacaga	ttcatcatta	ttcctaaagt	attgctgtat	taatactgtc	2160
ttctagaaag	tatccaccag	tgcctacttt	tcttcgatat	cattagctgt	ttttcgaaac	2220
tgaatttgct	cttcagagat	ttctcatatg	tttgcgtata	aggaaactact	ggtaatagcc	2280
aagaaaatth	ggaggtgcag	agaacatgct	gaaacagaat	ttttcacttt	caattctaga	2340
actatgccat	aaaaaaaaag	gaaaatgt				2368

<210> 42
 <211> 1928
 <212> DNA
 <213> Homo sapiens

<400> 42	cctgcctcag	cctccagagt	aacagggatt	acaggcatac	tccaccttgc	cctgctgatt	60
	ttgtattttt	agtagagaca	agagtttcac	catgttggcc	aggctgggtct	tgaactcctg	120
	acctcaagtg	atccactgcc	tcagcctccc	aaagtgctgg	gattataggc	gtgagccact	180

1209120

gcgcctggcc aaatgctcta ctttttaatc aatgttttcc aaaataggga tttttgctat	240
gtgcttttaga aattagagaa caaacgggtga taatatatgc taaacttaaa attagtatgc	300
ctccttttat agacaacaag aactttgtca cttcccagtt tgtcttgtca ttcaggaggc	360
tcagagctac gatctgtgcc cactcgtgct gcctcttctt aactttgatt tcctgaagca	420
gcgatttcat ctccgtttcc cctcatcacc tgttctttta actgtttaaa aacagcatta	480
catgttggtg caagtggcct caaattcttt ttggtagaag ggaaattgta atccatgaga	540
agaaaaaat tttcctaact attctcaggt gtgtttaagg gctgcattcc atgatgctat	600
cagtgccttc tttcagctca caggatatcg gccatgttaa tgagtctgat gttgctagta	660
tcacaggcac cggaaaatat gcacattatg ctggagcatt agaatgcaac agaaagagcc	720
ctgggcttg agtatgcaga actggttctt gttacaactc ctcttactag tgggctctgg	780
aagaaaacac attgaattca tgatcatggt taacctttgg agagagagag gagaccagga	840
tgaaggagcc agtcgaagat cctgttcaag tgtacactga gccagcaggt tcaccagaaa	900
gctattgagc gtttgctgga acacattatg caggggtgaat ttcttctgga atgttgccaa	960
ggatttttta tgcttctgtg gcaggcattt cttgaacatt gtcatttagc caagcaaaga	1020
agattttctt aaaggataga aaatgtttaa aaatttttgt ttgtttgaag atagggtaaa	1080
tggctatatg atctcaggat aagacagaga aaatcactta tttctctaag tgatctgatt	1140
aggttagtga tgttttgcct ttaaacagat tcatcattat tcctaaagta ttgctgtatt	1200
aatactgtct tctagaaagt atccaccagt gcctactttt cttcgatatc attagctgtt	1260
tttcgaaact gaatttgctc ttcagagatt tctcatatgt ttgcgataaa ggaactactg	1320
gtaatagcca agaaaatttg gaggtgcaga gaacatgctg aaacagaatt tttcactttc	1380
aattctagaa ctatgccata aaaaaaaagg aaaatgtaaa aatgtcttta tattagagca	1440
gatattttta aagtattgca aattcaatga taaattctaa gggtaaaatt ggacacataa	1500
aaaatacaat atataaatat ctccccagaa attattatct aatgaatagt aaaagctgac	1560
tacaaaccat gtcattttta caagggttta aatagtagca agatttctcat catatgctct	1620
gggataccca gtgatgtaca agggttctct ctaaacatgg ggaggaaaaa tttcaaatat	1680
aaagatttga atcttgtctt tgccattcac tagctgtgtg atcttgggta agttacctgg	1740
tttctctgag cttcagtgtc atctgtaaaa caggaataat aatacctagc tcagaggcgg	1800
gtgtgggtgg tcacgcctgt aatcccagca ctttgggagg ccaaggcagg tggatcacta	1860
ggtcaggagt ttgagaccag cctggccaag atgggtgaaat cctgtctcta cttaaaaaaa	1920
aaaaaaaa	1928

<210> 43
 <211> 1928
 <212> DNA
 <213> Homo sapiens

<400> 43
 cctgcctcag cctccagagt aacagggatt acaggcatac tccaccttgc cctgctgatt 60

1209120

ttgtatTTTT agtagagaca agagtttcac catgttggcc aggctgggtct tgaactcctg	120
acctcaagtG atccactgcc tcagcctccc aaagtGctgg gattataggc gtgagccact	180
gcgcctggcc aaatgctcta ctttttaatc aatgttttcc aaaatagggg tttttgctat	240
gtgcttttaga aattagagaa caaacgggtga taatatatgc taaacttaaa attagtatgc	300
ctccttttat agacaacaag aactttgtca cttcccagtt tgtcttgtca ttcaggaggc	360
tcagagctac gatctgtgcc cactcgtgct gcctcttctt aactttgatt tcctgaagca	420
gcgatttcat ctccgtttcc cctcatcacc tgttctttta actgttttaa aacagcatta	480
catgttggtg caagtggcct caaattcttt ttggtagaag ggaaattgta atccgtgaga	540
agaaaaaaat tttcctaact attctcaggt gtgtttaagg gctgcattcc atgatgctat	600
cagtgccttc tttcagctca caggatatcg gccatgttaa tgagtctgat gttgctagta	660
tcacaggcac cggaaaatat gcacattatg ctggagcatt agaatgcaac agaaagagcc	720
ctgggcttgg agtatgcaga actggttctt gttacaactc ctcttactag tgggctctgg	780
aagaaaacac attgaattca tgatcatggt taacctttgg agagagagag gagaccagga	840
tgaaggagcc agtcgaagat cctgttcaag tgtacactga gccagcaggt tcaccagaaa	900
gctattgagc gtttgctgga acacattatg caggggtgaat ttcttctgga atgttgccaa	960
ggatTTTTta tgcttctgtg gcaggcattt cttgaacatt gtcatttagc caagcaaaga	1020
agatTTTctt aaaggataga aaatgtttaa aaatTTTTgt ttgtttgaag ataggttaaa	1080
tggctatatg atctcaggat aagacagaga aaatcactta tttctctaag tgatctgatt	1140
aggttagtga tgttttgcct ttaaacagat tcatcattat tcctaaagta ttgctgtatt	1200
aatactgtct tctagaaagt atccaccagt gcctactttt cttcgatatc attagctgtt	1260
tttcgaaact gaatttgctc ttcagagatt tctcatatgt ttgcgtataa ggaactactg	1320
gtaatagcca agaaaatttg gaggtgcaga gaacatgctg aaacagaatt tttcactttc	1380
aattctagaa ctatgccata aaaaaaaagg aaaatgtaaa aatgtcttta tattagagca	1440
gatatTTTaa aagtattgca aattcaatga taaattctaa ggttaaaaatt ggacacataa	1500
aaaatacaat atataaatat ctccccagaa attattatct aatgaatagt aaaagctgac	1560
tacaaaccat gtcattTTTaa caagggTTTaa aatagtacca agattctcat catatgctct	1620
gggataccca gtgatgtaca agggTTTctt ctaaacatgg ggaggaaaaa tttcaaatat	1680
aaagatttga atcttgtctt tgccattcac tagctgtgtg atcttgggta agttacctgg	1740
tttctctgag cttcagtgtc atctgtaaaa caggaataat aatacctagc tcagaggcgg	1800
gtgtgggtggc tcacgcctgt aatcccagca ctttgggagg ccaaggcagg tggatcacta	1860
ggtcaggagt ttgagaccag cctggccaag atggtgaaat cctgtctcta cttaaaaaa	1920
aaaaaaaa	1928

<210> 44
<211> 2305

1209120

<212> DNA
<213> Homo sapiens

<400> 44
gcaaaagcgc tagggttgca agtggcacca gagacgtgcc cttgtcccgg ggtccatttg 60
agggtagagc tggttggtgcc gagctgtttt tttgttttgt tttgttttgt tttgtttttg 120
agaccgaatc tcgttctgtc gcccaggctg gaatgcagtg gtgtgatctt ggctcactgc 180
aacctccacc ttccgggttc aagtgaatct cctgcctcag cctcctgagt agctgggatt 240
actggcaccc accaccacga ccagctaatt tttgtatttt tagtagagac gggttttcac 300
catgttggcc aggatgggtct caatctcctg acctcaggcg atctgccttc ctcagcttcc 360
caaagtgctg ggattacagg tgtgagccac cgcacccggc cagtgtgag ctgttttgac 420
aacttggaac ccgggtcctc tgtgggtagg aaaatcagct ccctctttgc tcctctgggg 480
cagctgcacc tcgggccagc tttctgcctg tctgcctgcc ggcaactgctg ggtcgctgta 540
cccaaacgca cagccgggtgc cccgtgctag aaggctcttca gtttccagaa gagccaaagc 600
atctttggac ctacctaggg aaggacctgc ctgtgacctt tgccctgtcc tggaggggtcc 660
agctttgggc tgaatggcag caccacgct gggccgtctg gtgctgaccc acctgctggt 720
ggcccttttt ggcatgggtc cctgggctgc tgtgaacggg atctgggtgg agctgcctgt 780
gggtggtaaaa gaccttccag agggttggag cctcccctca tacctctctg tggttgtggc 840
gctgggaaac ctgggtctgc tgggtggtgac cctgtggagg cggctggccc cgggcaaggg 900
cgagcaggtc cccatccagg tggtagaggt gctgagtgtg gtgggcacag ccctgctggc 960
ccctctgtgg caccacgtgg ccccagtggc agggcagctc cactctgtgg ccttcctaac 1020
tctggccttg gtgttggtgaa tggcctgttg tacctctaata gtcactttcc tgcccttcct 1080
gagccacctg ccacctcctt tcttacggtc tttcttcctg ggtcagggtc tcagtgcctt 1140
actcccctgt gtgctggccc tagtgcaagg tgtgggccgc ctcgagtgcc caccagcgcc 1200
caccaatggc acctctgggc ctcccctcga cttccctgag cgttttcctg ccagcacctt 1260
cttctgggca ctgactgccc ttctggtcac ttcagctgcc gccttccggg gtctcctgtt 1320
gctgttgcca tcaactacct ctgtaaccac aggggggtca gggcctgaac ttcaactggg 1380
atccccagga gcagaggagg aagagaagga ggaagaagag gctttgccat tgcaggagcc 1440
accgagccag gcagcaggca ccatccctgg cccagaccct gaggtccatc agctgttctc 1500
agcccatggt gccttcctgc tgggcctgat ggccttcacc agtgccgtga ccaatggcgt 1560
gctgccttct gtgcagagct tttcctgttt gccctatggg cgcttgccct accacctggc 1620
tgtggtgctg ggcagtgccg ccaacccccct tgccctgttc ctggccatgg gcgtgctgtg 1680
caggctccctg gcagggtggg ttggtctttc tctgctgggc atgctctttg gggcctacct 1740
gatggcactg gcaatcctga gcccctgccc acccctggtg ggcaccactg caggggtggt 1800
ccttggtggtg ctgtcgtggg tgctgtgtct gtgtgtgttc tcatatgtga aggtggctgc 1860
aagctccctg ctgcatgggt ggggtcggcc ggcattgctg gcagctgggt tggccatcca 1920

1209120

agtgggctcc	ctgcttggtg	ccggtgccat	gttccctccc	accagcatct	accacgtgtt	1980
tcaaagcaga	aaggactgtg	tagaccctg	tggccctga	gcctgggcag	gtggggaccc	2040
aactccaccc	cacctgtctt	catcgtgagg	ctgccacagt	gcctgactac	ttgtggccca	2100
ggcaggcttc	ccccaacaca	ggaacgctca	tggacacctg	cacactccac	agaagacgtt	2160
ggcatgtgag	gccaggggtg	gcaccaaaga	ccaggcccag	agccagggga	caggttgggg	2220
ctgtgggctt	ggacccaggg	cctgagacct	ttgtgggatt	tgtgcaataa	agtgttttta	2280
tttaaaacca	aaaaaaaaaa	aaaaa				2305

<210> 45
 <211> 4315
 <212> DNA
 <213> Homo sapiens

<400> 45	
ggcggcggct	ggcggcggcg
gtggggcggg	gcctgggctg
tcagccggcc	taggaggagg
	60
aaggagcctg	cggcgtgcag
tgtgaggggc	gggacccggc
tgccggcggg	gggtctagct
	120
gggggagggtc	gggccatgct
ggtgggccag	ggcgcggggc
cgctggggcc	cgcggtgggtc
	180
accgccgcgg	tgggtgctgct
gctgagcggc	gtggggccgg
cgcacggctc	ggaggacatc
	240
gtggtgggct	gcggtggctt
cgtcaagtcg	gacgtggaga
tcaactactc	tctcatcgag
	300
ataaagctgt	acaccaagca
tgggactttg	aaataccaga
cagactgtgc	ccctaataat
	360
ggttacttta	tgatcccttt
gtatgataag	ggggatttca
ttctgaagat	tgagcctccc
	420
ctagggtgga	gttttgagcc
gacgaccgtg	gagctccatg
tggatggagt	cagtgcacatc
	480
tgcacaaagg	gtggggacat
caactttgtc	ttcactgggt
tctctgtgaa	tggcaagggtc
	540
ctcagcaaag	ggcagcccct
gggtcctgcg	ggagttcagg
tgtctctgag	aaacactggg
	600
accgaagcaa	agatccagtc
cacagttaca	cagcctggcg
gaaagtttgc	atTTTTTaaa
	660
gttctgcctg	gagattatga
aatcctcgca	actcatccaa
cctgggcggt	gaaagaggca
	720
agcaccacag	tgcgtgtaac
caactccaat	gccaatgcgg
ccagtcccct	catagtgtgct
	780
ggctacaatg	tgtctggctc
tgtccgaagt	gatggggagc
ccatgaaagg	cgtgaagttt
	840
cttctctttt	cttcttttagt
aactaaagag	gatgtcctgg
gctgcaatgt	ctcaccagtg
	900
cctgggttcc	agccccaaga
cgagagtctg	gtgtatttgt
gctacacggg	ctccagagaa
	960
gatggctcgt	tctcttttcta
ttccttgcca	agtgggggct
acactgtgat	tccgttctat
	1020
cgaggggaga	ggattacctt
tgatgtggcg	ccttccagac
ttgacttcac	agtggagcat
	1080
gacagcttga	aaatcgagcc
cgtgttccac	gtcatgggat
tctccgtcac	cgggaggggtc
	1140
ttgaacggac	ccgaaggaga
tgggtgtcca	gaagcagtag
tcaccctgaa	taaccaaadc
	1200
aaagttaaaa	caaaagctga
tggctcattc	cgccttgaga
acataaccac	agggacatac
	1260
accatccatg	ctcagaaaga
gcacctctac	tttgaaacgg
tcaccatcaa	aattgcacca
	1320
aacacacctc	agctgggtga
cattgttgca	acagggttca
gtgtctgtgg	tcagatatca
	1380
atcattcgct	tccccgacac
cgtcaagcag	atgaataaat
acaaagttgt	cctgtcatct
	1440

1209120

caagacaagg	acaagtcttt	ggtcaccgtg	gagacagatg	ctcatggatc	attttgtttt	1500
aaagcaaacc	cagggactta	caaagtgcag	gtgatggttc	ctgaggcaga	aaccagagca	1560
gggctgacgt	tgaaacccca	gacatttcct	cttactgtga	ccgacaggcc	tgtgatggat	1620
gtggcctttg	tacagttctt	ggcatcagtt	tctgggaaag	tctcttgttt	ggacacctgt	1680
ggtgacttgc	tggtgactct	acagtccctg	agccgccagg	gtgagaagcg	gagcctccag	1740
ctctccggca	agggtcaacgc	catgactttc	acctttgaca	acgtgctccc	tggaaaatac	1800
aaaataagca	tcatgcatga	ggattgggtg	tggaagaaca	agagcctgga	ggagggaagt	1860
ctggaggatg	acgtgtctgc	agttgagttc	aggcagacgg	gctacatgct	gagatgttcc	1920
ctgtctcacg	ccatcactct	ggaattttat	caggatggaa	atgggctgta	gaatgtgggg	1980
atttataacc	tctccaaagg	agtcaaccga	ttctgcctgt	ccaagcctgg	tgtgtacaaa	2040
gtgacccctc	gctcctgcca	ccggtttgag	caagcgttct	acacctatga	cacgtcttca	2100
cctagtatct	tgacattgac	agccattcgc	caccatgtcc	ttggaactat	caccaccgac	2160
aaaatgatgg	atgtcactgt	gactatcaag	tcttccatcg	acagtgaacc	cgccttggtc	2220
ttaggccctc	tgaagtctgt	gcaggagctg	cggagggagc	agcagctggc	tgagatcgag	2280
gcccgcaggc	aggagagggg	gaaaaacggc	aatgaggaag	gtgaagaaag	aatgaccaag	2340
cctcctgtgc	aggagatggg	agatgagtta	caaggcccct	tctcgtatga	tttctcttac	2400
tgggcgcggt	ctggagagaa	aatcactgtt	acaccgtcat	ctaaagagct	gctcttttat	2460
cccccttcaa	tggaagccgt	tgtcagtggg	gaaagctgcc	caggggaagct	gatcgagatc	2520
cacgggaagg	caggcctgtt	tttagaaggc	cagatccacc	ccgagttgga	aggagtcgag	2580
attgtcatca	gtgaaaaggg	ggcaagttca	ccgctgatca	cagtctttac	tgatgacaaa	2640
ggtgccctaca	gtgttggtccc	cctgcacagt	gacctggagt	acacggtgac	ctcacagaag	2700
gagggctatg	ttctgactgc	agtggaaagg	accatcggag	acttcaaggc	ctatgccctg	2760
gcaggcgtaa	gctttgagat	aaaagctgag	gatgaccagc	ccctcccggg	agtcctctta	2820
tccctgagtg	gtggcctgtt	tcgttccaac	ctcttgaccc	aggacaacgg	cattctgaca	2880
ttctcaaacc	tgagccctgg	ccagtattac	ttcaaaccga	tgatgaagga	gttccggttt	2940
gagccatcct	cacagatgat	cgagggtgcg	gaaggccaga	acctgaagat	caccatcacg	3000
gggtaccgaa	ccgcttacag	ttgctatggc	acagtgtctt	ccttaaaccg	agagcccga	3060
caaggggttg	ccatggaagc	ggaggggccg	aacgactgca	gcatttacgg	agaagacacc	3120
gtgacagacg	aagagggcaa	gttcagatta	cgtggattgc	tgccgggatg	tgtgtaccac	3180
gttcagctca	aggcagaagg	caacgaccac	attgagcggg	cgctccccc	ccataggggtg	3240
attgaggttg	ggaataatga	catcgatgat	gtaaacaatca	tagttttccg	gcagattaat	3300
caatttgatt	taagtggaaa	tgtgatcact	tcctctgaat	accttcctac	gttatgggtc	3360
aagctttaca	aaagcgaaaa	cctcgacaat	ccaatccaga	cagtttccct	tggccagtcc	3420
ctgttcttcc	atttcccccc	actgctcaga	gatggcgaga	actatgttgt	gcttctggac	3480

1209120

tccacactcc	ccagatccca	gatatgactac	atcttgccctc	aagtttcttt	caccgcagtg	3540
ggctaccata	aacacatcac	cttgattttt	aatcccacga	ggaagctgcc	tgaacaggac	3600
atcgcacaa	gacccctacat	tgccctgcca	ttgacgctgc	tggttctgct	ggccggttac	3660
aaccatgaca	agctcattcc	tttgctgctg	cagttgacaa	gccggctaca	gggagtcggc	3720
gcgctcggcc	aggcagcctc	tgacaatagc	ggcccagaag	atgcaaagag	acaagccaag	3780
aaacagaaga	caaggcggac	gtgaggagga	aggggacagt	tgagttctca	cttgggacag	3840
gccacagcca	ggggtccggc	cactacccgc	ccgtgggata	aaagccaaaa	gcatgctgca	3900
gctaacttca	gcctgtgctg	ctgggcccgc	accccatgtc	ccttgtcact	gtggcatcct	3960
gcacccatcc	tcacccctcc	gtagagcccc	tcgtgcaatg	caatgaatgg	accctcctgt	4020
cactctgctg	aacagaattt	atcttctgag	tcaaatataa	tttattatta	tttttgtcaa	4080
agaagtattt	aagctgtgct	gtggtgtgag	aatgtcattc	ttgatcttca	gccttcgttt	4140
gcaagaagag	ttccagttga	tgtggtgttt	ggttccatgg	cggggtaccc	tagggattca	4200
tctgttttct	tcacttccct	ttgcatctga	gatcctgctg	gaaaccacgg	caacctgtat	4260
ccactattag	gaggtaaaaa	tcaataaaat	ggcccattca	tttgtgttgt	agctc	4315

<210> 46
 <211> 1124
 <212> DNA
 <213> Homo sapiens

<400> 46	
ccagggcgcg	acgcgctgcg
gctcagcgac	gcggcttcta
gaaccgggtg	attgaactaa
60	
accttcgccg	caccgagttt
gcagtagcgc	cgtagccccc
accgctgcct	gcttgcgggt
120	
ggagaaatca	aggccctacc
gggcctccgt	agtcacctct
ctatagtggg	cgtggccgag
180	
gccgggggtga	ccctgccgga
gcctccgctg	ccagcgacat
gttcaaggta	attcagaggt
240	
ccgtggggcc	agccagcctg
agcttgctca	ccttcaaagt
ctatgcagca	ccaaaaaagg
300	
actcacctcc	caaaaattcc
gtgaagggtg	atgagctttc
actctactca	gttcctgagg
360	
gtcaatcgaa	gtatgtggag
gaggcaagga	gccagcttga
agaaagcatc	tcacagctcc
420	
gacactattg	cgagccatac
acaacctggg	gtcaggaaac
gtactcccaa	actaagccca
480	
agatgcaaag	tttggttcaa
tggggggttag	acagctatga
ctatctccaa	aatgcacctc
540	
ctggattttt	tccgagactt
ggtgttattg	gttttgctgg
ccttattgga	ctccttttgg
600	
ctagagggttc	aaaaataaag
aagctagtgt	atccgcctgg
tttcatggga	ttagctgcct
660	
ccctctatta	tccacaacaa
gccatcgtgt	ttgcccaggt
cagtggggag	agattatatg
720	
actgggggtt	acgaggatat
atagtcatag	aagattttgt
gaaggagaac	tttcaaaagc
780	
caggaaatgt	gaagaattca
cctggaacta	agtagaaaac
tccatgctct	gccatcttaa
840	
tcagttatag	gtaaacattg
gaaactccat	agaataaatc
agtatttcta	cagaaaaatg
900	
gcatagaagt	cagtattgaa
tgtattaaat	tggcttttct
cttcaggaaa	aactagacca
960	

1209120

gacctctgtt atcttctgtg aaatcatcct acaagcaaac taacctggaa tcccttcacc	1020
tagagataat gtacaagcct tagaactcct catttctatg ttgctattta tgtacctaat	1080
taaaacccaa gttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa	1124

<210> 47
 <211> 2967
 <212> DNA
 <213> Homo sapiens

<400> 47

agtgcggacg tgcgcattcc tggcccatgg gaagattgcg tttcacctgc tcctgaaggc	60
cgaagggtggc tctagcgcac cctttgtcgc gccgtgacct gcagggtactg acagatccgt	120
agggaggaca ccgtgacttc ccggacgctg ggaaatggac tcagtctcct ttgaggatgt	180
ggccgtgaac ttcaccctgg aggagtgggc tttgctggat tcttcacaga aaaagctcta	240
tgaagatgtg atgcaggaga ccttcaaaaa cctggtttgt ctaggaaaaa agtgggaaga	300
ccaggacatt gaagatgacc acagaaacca ggggaaaaat cgaagatgtc atatggttga	360
gagactctgt gaaagtagaa gaggtagcaa atgtggagaa accactagcc agatgccaaa	420
tgtaatatc aacaaggaaa cttttactgg agcaaaacca catgaatgca gcttttgtgg	480
aagagacttc attcatcatt cgtcccttaa taggcacatg agatctcaca ctggacagaa	540
accaaagtag tatcaggaat atgaaaagca accatgtaaa tgtaaagcag ttgggaaaac	600
cttcagttat caccactgct ttcgcaaaca tgaaagaact cacactggag tgaagcccta	660
tgaatgtaaa cagtgtggga aagcctttat atattaccag ccattttcaa gacatgaaag	720
gactcatgct ggacagaaac cctatgaatg taagcaatgt ggaaaaacct ttatatatta	780
ccagtctttt caaaaacatg ctcatactgg aaagaaaccc tatgaatgta aacagtgtgg	840
gaaagccttt atatgttacc aatcttttca aagacacaaa aggactcaca ctggagagaa	900
accctatgaa tgtaagcaat gtggtaaggc tttcagttgt cccacatact ttcgaactca	960
tgaaagaact cacactggag aaaaacccta caaatgtaaa gaatgtggta aagccttcag	1020
ttttctcagt tcttttcgaa ggcataaaag gactcatagt ggagagaaac cctatgaatg	1080
taaagaatgt ggaaaagcct tcttttattc tgcaagcttt cgagcacatg taataatata	1140
cactggggct cgaccttata aatgtaaaga atgtgggaaa gccttcaact cttctaattc	1200
ctgtcgagtg catgaaagaa ctcatattgg agaaaaacca tatgaatgta aacgatgtgg	1260
caaatcattc agttggtcca tttctcttcg attgcatgaa agaactcata ctggagagaa	1320
accttatgag tgtaaacagt gtcataaaac cttcagtttt tcaagttccc ttcgagaaca	1380
cgaacaact cacactggag agaaacccta tgaatgtaaa caatgtggta aaaccttcag	1440
tttttcaagt tcccttcaaa gacatgaaag gactcacaat gcagagaaac cctatgaatg	1500
taaacagtgt gggaaagcct tcagggtgtc aagttatttt cgaattcatg aaaggtcaca	1560
cactggagag aaaccctatg aatgtaaaca gtgtgggaaa gttttcattc gttccagttc	1620
ctttcgactg catgaaagaa cacacactgg agagaaaacc tatgaatgta aactatgcgg	1680

1209120

taaaaccttc agtttttcaa gttcccttcg agaacatgaa aaaattcaca ctggaaataa	1740
gccttttgag tgtaagcaat gtggttaaggc cttcccttcgt tccagtcaaa ttcgattgca	1800
tgaaaggact cacactggag agaaaccgta tcaatgtaaa caatgtggaa aagccttcat	1860
ttcttccagt aaatttcgaa tgcattgagag aactcacacg ggagagaaaac cctatcgatg	1920
taaacaatgt gggaaagcct tcagattttc aagttctgtt cgaattcatg aaaggctctca	1980
cactggagag aaaccttatg aatgcaaaca atgtggaaaa gccttcattt cttccagtca	2040
ctttcgactg catgaaagga ctcatatggg agagaaagtc taagaatata agcaacattc	2100
tgaagccttc ggttggtcca gctccttctg aatacacaaa agagttcata ctggacagaa	2160
gctgtgtgaa tacaacattt gttctaaagc ccttaattgt tccagtttct tttgagcacg	2220
aaagaattcc cactggtgag aaacagtatg aatgtaaaca ttgtgattaa gccttcagtt	2280
gacctaatc atttcaaaga caggactcgt gctgcagtga aatctgtttt gttttttgtt	2340
ttttgttttt ttaaaaaagg ccaagcttgt tggctcatgc ctatagtccc agcactttgg	2400
gaggccaagg tgcaaggcag gcagatcatt tgaggtcaga aattcgagac cagcgtggtc	2460
aacatggtgt aaccccatct ctactaaaaa ttaccaaaaa atgaaccagg catggttagtg	2520
catgcctcta atcccagcta ctcaggaggc taaggcagga gaatcacttg aacctggaga	2580
cagaggttgc agtgagctga gatcacgcca ctgcattcca gcctgtgcga cagaatgaga	2640
cactgtctca agaaaaaata aaagtgggaa aatcttccaa ctgtcctcta gagtgtgaat	2700
atatgaaagg agtcagagtg gggtgaaagt ctataaatgt aagacatttg ggaaagcctt	2760
cacacagcct tttgagcaca catgagaatg tatactggag agaaacccta taaatattaa	2820
gaatgtggga aattcttcat cctagttctt ttgttgttgt tgatgataca aaaatatttt	2880
catttaataa agattgtcag gttatattta ataagaaaga aagtatcatg taaacagccc	2940
agtaataaaa ttttacaatc ttaaaaa	2967

<210> 48
 <211> 1725
 <212> DNA
 <213> Homo sapiens

<400> 48	
acgtccgggg aggggccagg tgagcggcag acccggcacg cagggtggggg ccggcggggg	60
ccgtggccag agctgcagag agacaaggcg gcggcggctg ctgtgctggg tgcagtgagg	120
aagaggccct cggtggtgcc catggctggc caggatcctg cgctgagcac gagtcacccg	180
ttctacgacg tggccagaca tggcattctg cagggtggcag gggatgaccg ctttggaaga	240
cgtgttgtca cgttcagctg ctgccggatg ccaccctccc acgagctgga ccaccagcgg	300
ctgctggagt atttgaagta cacactggac caatacgttg agaacgatta taccatcgtc	360
tatttccact acgggctgaa cagccggaac aagccttccc tgggctggct ccagagcgca	420
tacaaggagt tcgataggaa agacggggat ctcactatgt ggcccaggct ggtctcgaac	480

1209120

tccaagctca agcgatcctc ccacctcagc ctcccaaagt actgggatta caggtacaag	540
aagaacttga aggccctcta cgtggtgcac cccaccagct tcatcaaggt cctgtggaac	600
atcttgaagc ccctcatcag tcacaagttt ggaagaaag tcatctattt caactacctg	660
agtgagctcc acgaacacct taaatacgac cagctggtca tccctcccga agttttgcgg	720
tacgatgaga agctccagag cctgcacgag ggccggacgc cgcctcccac caagacacca	780
ccgccgcggc ccccgctgcc cacacagcag tttggcgtca gtctgcaata cctcaaagac	840
aaaaatcaag gcgaactcat cccccctgtg ctgaggttca cagtgcgta cctgagagag	900
aaaggcctgc gcaccgaggg cctgttccgg agatccgcc gcgtgcagac cgtccgcgag	960
atccagaggc tctacaacca aggaagccc gtgaactttg acgactacgg ggacattcac	1020
atccctgccg tgatcctgaa gaccttctg cgagagctgc cccagccgct tctgaccttc	1080
caggcctacg agcagattct cgggatcacc tgtgtggaga gcagcctgcg tgtcactggc	1140
tgccgccaga tcttacggag cctcccagag cacaactacg tcgtcctccg ctacctcatg	1200
ggcttcctgc atgcggtgtc ccgggagagc atcttcaaca aaatgaacag ctctaacctg	1260
gcctgtgtct tcgggctgaa tttgatctgg ccatcccagg gggctctctc cctgagtgcc	1320
cttggtgccc tgaacatggt cactgaactg ctgatcgagt actatgaaaa gatcttcagc	1380
accccgaggc cacctgggga gcacggcctg gcaccatggg aacaggggag cagggcagcc	1440
cctttgcagg aggctgtgcc acggacacaa gccacgggccc tcaccaagcc taccctacct	1500
ccgagtcccc tgatggcagc cagaagacgt ctctagtgtt gcgaacactc tgtatatttc	1560
gagctacctc ccacacctgt ctgtgcactt gtatgttttg taaacttggc atctgtaaaa	1620
ataaccagcc attagatgaa ttcagaacct tctaataaaa actccatgcc tctggtcctt	1680
ggactcttgt ccatgggttc tgagctgtgg accgggatag aataa	1725

<210> 49
 <211> 1632
 <212> DNA
 <213> Homo sapiens

<400> 49

acgtccgggg aggggccagg tgagcggcag acccggcacg caggtggggg ccggcggggg	60
ccgtggccag agctgcagag agacaaggcg gcggcggctg ctgtgctggg tgcagtgagg	120
aagaggccct cgggtggtgcc catggctggc caggatcctg cgctgagcac gagtcacccg	180
ttctacgacg tggccagaca tggcattctg cagggtggcag gggatgaccg ctttggaaga	240
cgtgttgta cgttcagctg ctgccggatg ccaccctccc acgagctgga ccaccagcgg	300
ctgctggagt atttgaagta cacactggac caatacgttg agaacgatta taccatcgtc	360
tatttccact acgggctgaa cagccggaac aagccttccc tgggctggct ccagagcgca	420
tacaaggagt tcgataggaa gtacaagaag aacttgaagg ccctctacgt ggtgcacccc	480
accagcttca tcaaggctct gtggaacatc ttgaagcccc tcatcagtca caagtttggg	540
aagaaagtca tctatttcaa ctacctgagt gagctccacg aacaccttaa atacgaccag	600

1209120

ctggtcatcc ctcccgaagt tttgcggtac gatgagaagc tccagagcct gcacgagggc	660
cggacgccgc ctcccaccaa gacaccaccg ccgcggcccc cgctgcccac acagcagttt	720
ggcgtcagtc tgcaatacct caaagacaaa aatcaaggcg aactcatccc ccctgtgctg	780
aggttcacag tgacgtacct gagagagaaa ggcctgcgca ccgagggcct gttccggaga	840
tccgccagcg tgcagaccgt ccgcgagatc cagaggctct acaaccaagg gaagcccgtg	900
aactttgacg actacgggga cattcacatc cctgccgtga tcctgaagac cttcctgcga	960
gagctgcccc agccgcttct gaccttccag gcctacgagc agattctcgg gatcacctgt	1020
gtggagagca gcctgcgtgt cactggctgc cgccagatct tacggagcct cccagagcac	1080
aactacgtcg tcttcgcta cctcatgggc ttcttgcgcatg cgggtgtcccg ggagagcatc	1140
ttcaacaaaa tgaacagctc taacctggcc tgtgtcttcg ggctgaattt gatctggcca	1200
tcccaggggg tctcctccct gagtgccctt gtgcccctga acatgttcac tgaactgctg	1260
atcgagtact atgaaaagat cttcagcacc ccggaggcac ctggggagca cggcctggca	1320
ccatgggaac aggggagcag ggcagcccct ttgcaggagg ctgtgccacg gacacaagcc	1380
acgggcctca ccaagcctac cctacctccg agtccccctga tggcagccag aagacgtctc	1440
tagtgttgcg aacactctgt atatttcgag ctacctcca cacctgtctg tgcacttgta	1500
tgttttgtaa acttggcatc tgtaaaaata accagccatt agatgaattc agaaccttct	1560
aatgaaaact ccatgcctct ggtccttgga ctcttgcca tggttcctga gctgtggacc	1620
gggatagaat aa	1632

<210> 50
 <211> 11389
 <212> DNA
 <213> Homo sapiens

<400> 50 atggcgccgc cgccgccgcc cgtgctgccc gtgctgctgc tcctggccgc cgccgccgcc	60
ctgccggcga tggggctgcg agcggccgcc tgggagccgc gcgtacccgg cgggaccgcg	120
gccttcgccc tccggcccgg ctgtacctac gcggtgggcg ccgcttgac gccccgggcg	180
ccgcgggagc tgctggacgt gggccgcgat gggcggctgg caggacgtcg gcgcgtctcg	240
ggcgcggggc gcccgtgcc gctgcaagtc cgcttggtgg cccgcagtgc cccgacggcg	300
ctgagccgcc gcctgcgggc gcgcacgcac cttcccggct gcggagcccc tgcccggctc	360
tgcggaaccg gtgcccggct ctgcggggcg ctctgcttcc ccgtccccgg cggctgcgcg	420
gccgcgcagc attcggcgct cgcagctccg accaccttac ccgcctgccg ctgcccgccg	480
cgccccaggc cccgtgtcc cggccgtccc atctgcctgc cgccggggcg ctcgggtccgc	540
ctgcgtctgc tgtgcgccct gcggcgcgcg gctggcgccg tccgggtggg actggcgctg	600
gaggccgcca ccgcggggac gccctccgcg tcgccatccc catcgccgcc cctgccgccg	660
aacttgcccc aagccccggc ggggcccggc cgacggggcc ggcggggcac gagcggcaga	720

				1209120		
gggagcctga	agtttccgat	gcccactac	caggtggcgt	tgtttgagaa	cgaaccggcg	780
ggcaccctca	tcctccagct	gcacgcgcac	tacaccatcg	agggcgagga	ggagcgcgctg	840
agctattaca	tggaggggct	gttcgacgag	cgctcccggg	gctacttccg	aatcgactct	900
gccacgggcg	ccgtgagcac	ggacagcgta	ctggaccgcg	agaccaagga	gacgcacgtc	960
ctcaggggtga	aagccgtgga	ctacagtacg	ccgccgcgct	cggccaccac	ctacatcact	1020
gtcttgggtca	aagacaccaa	cgaccacagc	ccggtcttcg	agcagtcgga	gtaccgcgag	1080
cgcggtgcggg	agaacctgga	ggtagggctac	gaggtgctga	ccatccgcgc	cagcgaccgc	1140
gactcgccca	tcaacgcca	cttgcggttac	cgcggtgttg	ggggcgcgctg	ggacgtcttc	1200
cagctcaacg	agagctctgg	cgtgggtgagc	acacgggcg	tgctggaccg	ggaggaggcg	1260
gccgagtacc	agctcctggt	ggaggccaac	gaccaggggc	gcaatccggg	cccgtcagt	1320
gccacggcca	ccgtgtacat	cgaggtggag	gacgagaacg	acaactaccc	ccagttcagc	1380
gagcagaact	acgtgggtcca	ggtagcccgag	gacgtggggc	tcaacacggc	tgtgctgcga	1440
gtgcaggcca	cggaccggga	ccagggccag	aacgcggcca	ttactacag	catcctcagc	1500
gggaacgtgg	ccggccagtt	ctacctgcac	tcgctgagcg	ggatcctgga	tgtgatcaac	1560
cccttggatt	tcgaggatgt	ccagaaatac	tcgctgagca	ttaaggccca	ggatgggggc	1620
cggcccccg	tcatcaattc	ttcaggggtg	gtgtctgtgc	aggtgctgga	tgtcaacgac	1680
aacgagccta	tccttgtgag	cagccccctc	caggccacgg	tgctggagaa	tgtgcccctg	1740
ggctaccccg	tgggtgcacat	tcaggcggtg	gacgcggact	ctggagagaa	cgcccggtg	1800
cactatcgcc	tggtaggacac	ggcctccacc	tttctggggg	gcggcagcgc	tgggcctaag	1860
aatcctgccc	ccacccctga	cttccccctc	cagatccaca	acagctccgg	ttggatcaca	1920
gtgtgtgccc	agctggaccg	cgaggagggtg	gagcactaca	gcttcggggg	ggaggcggtg	1980
gaccacggct	cgccccccat	gagctcctcc	accagcggtg	ccatcacggg	gctggacgtg	2040
aatgacaacg	accgggtgtt	cacgcagccc	acctacgagc	ttcgtctgaa	tgaggatgcg	2100
gccgtgggga	gcagcggtgt	gaccctgcag	gcccgcgacc	gtgacgcca	cagtgtgatt	2160
acctaccagc	tcacaggcgg	caacacccgg	aaccgctttg	cactcagcag	ccagagaggg	2220
ggcggcctca	tcaccctggc	gctacctctg	gactacaagc	aggagcagca	gtacgtgctg	2280
gcggtgacag	catccgacgg	cacacggctg	cacactgcgc	atgtccta	caacgtcact	2340
gatgccaaca	cccacaggcc	tgtctttcag	agctcccat	acacagtgag	tgtcagtgag	2400
gacaggcctg	tgggcacctc	cattgctacc	ctcagtgcc	acgatgagga	cacaggagag	2460
aatgcccgca	tcacctacgt	gattcaggac	cccgtgccgc	agttccgcat	tgaccccgac	2520
agtggcacca	tgtacaccat	gatggagctg	gactatgaga	accaggtcgc	ctacacgtg	2580
accatcatgg	cccaggacaa	cggcatcccc	cagaaatcag	acaccaccac	cctagagatc	2640
ctcatcctcg	atgccaatga	caatgcaccc	cagttcctgt	gggatttcta	ccagggttcc	2700
atctttgagg	atgctccacc	ctcgaccagc	atcctccagg	tctctgccac	ggaccgggac	2760

			1209120			
tcaggtccca	atgggcgtct	gctgtacacc	ttccaagggtg	gggacgacgg	cgatggggac	2820
ttctacatcg	agccccacgtc	cggtgtgatt	cgcacccagc	gccggctgga	ccggggagaat	2880
gtggccgtgt	acaacctttg	ggctctggct	gtggatcggg	gcagtcccac	tccccttagc	2940
gcctcggtag	aaatccaggt	gaccatcttg	gacattaatg	acaatgcccc	catgtttgag	3000
aaggacgaac	tggagctggt	tgttgaggag	aacaacccag	tggggtcggt	ggtggcaaag	3060
attcgtgcta	acgacctga	tgaaggccct	aatgcccaga	tcatgtatca	gattgtggaa	3120
ggggacatgc	ggcattttctt	ccagctggac	ctgctcaacg	gggacctgcg	tgccatggtg	3180
gagctggact	ttgagggtccg	gcgggagtat	gtgctggtgg	tgcaggccac	gtcggctccg	3240
ctggtgagcc	gagccacggt	gcacatcctt	ctcgtggacc	agaatgacaa	cccgcctgtg	3300
ctgcccgaact	tccagatcct	cttcaacaac	tatgtcacca	acaagtccaa	cagtttcccc	3360
accggcgtga	tcggctgcat	cccggccccat	gaccccgacg	tgtcagacag	cctcaactac	3420
accttcgtgc	agggcaacga	gctgcgccctg	ttgctgctgg	accccgccac	gggcgaactg	3480
cagctcagcc	gcgacctgga	caacaaccgg	ccgctggagg	cgctcatgga	ggtgtctgtg	3540
tctgatggca	tccacagcgt	cacggccttc	tgcaccctgc	gtgtcaccat	catcacggac	3600
gacatgctga	ccaacagcat	cactgtccgc	ctggagaaca	tgtcccagga	gaagtccctg	3660
tccccgctgc	tggccctctt	cgtggagggg	gtggccgccc	tgctgtccac	caccaaggac	3720
gacgtcttcg	tcttcaacgt	ccagaacgac	accgacgtca	gctccaacat	cctgaacgtg	3780
accttctcgg	cgctgctgcc	tggcggcgtc	cgcggccagt	tcttcccgtc	ggaggacctg	3840
caggagcaga	tctacctgaa	tcggacgctg	ctgaccacca	tctccacgca	gcgcgtgctg	3900
cccttcgacg	acaacatctg	cctgcgcgag	ccctgcgaga	actacatgaa	gtgcgtgtcc	3960
gttctgcat	tcgacagctc	cgcgcccttc	ctcagctcca	ccaccgtgct	cttccggccc	4020
atccacccca	tcaacggcct	gcgctgccgc	tgcccggccc	gcttcaccgg	cgactactgc	4080
gagacggaga	tcgacctctg	ctactccgac	ccgtgcggcg	ccaacggccg	ctgccgcagc	4140
cgcgagggcg	gctacacctg	cgagtgcctc	gaggacttca	ctggagagca	ctgtgaggtg	4200
gatgcccgt	caggccgctg	tgccaacggg	gtgtgcaaga	acgggggcac	ctgcgtgaac	4260
ctgctcatcg	gcggcttcca	ctgcgtgtgt	cctcctggcg	agtatgagag	gccctactgt	4320
gaggtgacca	ccaggagctt	cccgccccag	tccttcgtca	ccttccgggg	cctgagacag	4380
cgcttccact	tcaccatctc	cctcacgttt	gccactcagg	aaagggaacg	cttgcttctc	4440
tacaacggcc	gcttcaatga	gaagcacgac	ttcatcgccc	tggagatcgt	ggacgagcag	4500
gtgcagctca	ccttctctgc	aggcgagaca	acaacgaccg	tggcaccgaa	ggttcccagt	4560
ggtgtgagt	acgggcgggtg	gcactctgtg	cagggtgcagt	actacaacaa	gcccattatt	4620
ggccacctgg	gcctgcccc	tgggcccgtcc	ggggaaaaga	tggccgtggt	gacagtggat	4680
gattgtgaca	caaccatggc	tgtgcgcttt	ggaaaaggaca	tcgggaacta	cagctgcgct	4740
gcccagggca	ctcagaccgg	ctccaagaag	tccctggatc	tgaccggccc	tctactcctg	4800

1209120

gggggtgtcc	ccaacctgcc	agaagacttc	ccagtgcaca	accggcagtt	cgtgggctgc	4860
atgcggaacc	tgtcagtcga	cggcaaaaat	gtggacatgg	ccggattcat	cgccaacaat	4920
ggcaccgagg	aaggctgcgc	tgctcggagg	aacttctgcg	atgggaggcg	gtgtcagaat	4980
ggaggcacct	gtgtcaacag	gtggaatatg	tatctgtgtg	agtgtccact	ccgattcggc	5040
gggaagaact	gtgagcaagc	catgcctcac	ccccagctct	tcagcgggtga	gagcgtcgtg	5100
tcctggagtg	acctgaacat	catcatctct	gtgccctggg	acctggggct	catgttccgg	5160
accggaagg	aggacagcgt	tctgatggag	gccaccagtg	gtgggcccac	cagctttcgc	5220
ctccagatcc	tgaacaacta	cctccagttt	gagggtgtccc	acggcccctc	cgatgtggag	5280
tccgtgatgc	tgtccgggtt	gcgggtgacc	gacggggagt	ggcaccacct	gctgatcgag	5340
ctgaagaatg	ttaaggagga	cagtgaagtg	aagcacctgg	tcacatgac	cttgactat	5400
gggatggacc	agaacaaggc	agatatcggg	ggcatgcttc	ccgggctgac	ggtaaggagc	5460
gtggtggtcg	gaggcgcctc	tgaagacaag	gtctccgtgc	gccgtggatt	ccgaggctgc	5520
atgcagggag	tgaggatggg	ggggacgccc	accaacgtcg	ccaccctgaa	catgaacaac	5580
gcactcaagg	tcagggtgaa	ggacggctgt	gatgtggacg	accctgtac	ctcgagcccc	5640
tgtcccccca	atagccgctg	ccacgacgcc	tgggaggact	acagctgcgt	ctgtgacaaa	5700
gggtaccttg	gaataaactg	tgtggatgcc	tgtcacctga	accctgcga	gaacatgggg	5760
gcctgcgtgc	gctcccccg	ctccccgcag	ggctacgtgt	gcgagtgtgg	gcccagtcac	5820
tacgggccgt	actgtgagaa	caaactcgac	cttccgtgcc	ccagaggctg	gtgggggaac	5880
cccgtctgtg	gaccctgcca	ctgtgccgtc	agcaaaggct	ttgatcccga	ctgtaataag	5940
accaacggcc	agtgccaatg	caaggagaa	tactacaagc	tcctagccca	ggacacctgt	6000
ctgccctgcg	actgcttccc	ccatggctcc	cacagccgca	cttgcgacat	ggccaccggg	6060
cagtgtgcct	gcaagcccgg	cgtcatcggc	cgccagtgc	accgctgcga	caaccgttt	6120
gccgaggcca	ccacgctcgg	ctgtgaagtg	atctacaatg	gctgtcccaa	agcatttgag	6180
gccggcatct	ggtggccaca	gaccaagtgc	gggcagccgg	ctgcggtgcc	atgccctaag	6240
ggatccgttg	gaaatgcggg	ccgacactgc	agcggggaga	agggctggct	gccccagag	6300
ctctttaact	gtaccaccat	ctccttcgtg	gacctcaggg	ccatgaatga	gaagctgagc	6360
cgcaatgaga	cgcagggtga	cggcgccagg	gccctgcagc	tggtgagggc	gctgcgcagt	6420
gctacacagc	acacgggcac	gctctttggc	aatgacgtgc	gcacggccta	ccagctgctg	6480
ggccacgtcc	ttcagcacga	gagctggcag	cagggcttcg	acctggcagc	cacgcaggac	6540
gccgactttc	acgaggacgt	catccactcg	ggcagcggcc	tcctggcccc	agccaccagg	6600
gcggcggtgg	agcagatcca	gcggagcgag	ggcggcacgg	cacagctgct	ccggcgccctc	6660
gagggctact	tcagcaacgt	ggcacgcaac	gtgcggcgga	cgtaacctgc	gcccttcgtc	6720
atcgtcaccg	ccaacatgat	tcttgctgtc	gacatctttg	acaagttcaa	ctttacggga	6780
gccagggtcc	cgcgattcga	caccatccat	gaagagttcc	ccaggagct	ggagtcctcc	6840

1209120

gtctccttcc	cagccgactt	cttcagacca	cctgaagaaa	aagaaggccc	cctgctgagg	6900
ccggctggcc	ggaggaccac	cccgcagacc	acgcgcccgg	ggcctggcac	cgagagggag	6960
gccccgatca	gcaggcggag	gcgacaccct	gatgacgctg	gccagttcgc	cgtcgctctg	7020
gtcatcattt	accgcaccct	ggggcagctc	ctgcccgagc	gctacgaccc	cgaccgtcgc	7080
agcctccggt	tgcctcaccg	gccccatcatt	aataccccga	tggtgagcac	gctgggtgtac	7140
agcgaggggg	ctccgctccc	gagacccctg	gagaggcccc	tcctgggtgga	gttcgccctg	7200
ctggagggtg	aggagcgaac	caagcctgtc	tgcgtgttct	ggaaccactc	cctggccgtt	7260
ggtgggacgg	gaggggtggc	tgcccggggc	tgcgagctcc	tgtccaggaa	ccggacacat	7320
gtcgccctgc	agtgcagcca	cacagccagc	tttgcggtgc	tcattggatat	ctccaggcgt	7380
gagaacgggg	aggtcctgcc	tctgaagatt	gtcacctatg	ccgctgtgtc	cttgtcactg	7440
gcagccctgc	tggtggcctt	cgctcctctg	agcctggtcc	gcatgctgcg	ctccaacctg	7500
cacagcattc	acaagcacct	cgccgtggcg	ctcttcctct	ctcagctggg	gttcgtgatt	7560
gggatcaacc	agacggaaaa	cccgtttctg	tgcacagtgg	ttgccatcct	cctccactac	7620
atctacatga	gcacctttgc	ctggaccctc	gtggagagcc	tgcatgtcta	ccgcatgctg	7680
accgaggtgc	gcaacatcga	cacggggccc	atgcggttct	actacgtcgt	gggctggggc	7740
atcccggcca	ttgtcacagg	actggcggtc	ggcctggacc	cccagggcta	cgggaaacccc	7800
gacttctgct	ggctgtcgct	tcaagacacc	ctgatttgga	gctttgcggg	gccccatcga	7860
gctgttataa	tcatcaacac	agtcacttct	gtcctatctg	caaaggtttc	ctgccaaaga	7920
aagcaccatt	attatgggaa	aaaagggatc	gtctccctgc	tgaggaccgc	attcctcctg	7980
ctgtgtctca	tcagcgccac	ctggctgctg	gggctgctgg	ctgtgaaccg	cgatgcactg	8040
agctttcact	acctcttcgc	catcttcagc	ggcttacagg	gccccttcgt	cctccttttc	8100
cactgcgtgc	tcaaccagga	ggtccggaag	cacctgaagg	gcgtgctcgg	cgggaggaag	8160
ctgcacctgg	aggactccgc	caccaccagg	gccaccctgc	tgacgcgctc	cctcaactgc	8220
aacaccacct	tcggtgacgg	gcctgacatg	ctgcgcacag	acttgggcga	gtccaccgcc	8280
tcgctggaca	gcatcgtcag	ggatgaaggg	atccagaagc	tcggcgtgtc	ctctgggctg	8340
gtgaggggca	gccacggaga	gccagacgcg	tcctcatatg	ccaggagctg	caaggatccc	8400
cctggccacg	attccgactc	agatagcgag	ctgtccctgg	atgagcagag	cagctcttac	8460
gcctcctcac	actcgtcaga	cagcgaggac	gatgggggtg	gagctgagga	aaaatgggac	8520
ccggccaggg	gcgccgtcca	cagcaccccc	aaagggggacg	ctgtggccaa	ccacgttccg	8580
gccggctggc	ccgaccagag	cctggctgag	agtgcagctg	aggacccag	cggcaagccc	8640
cgcctgaagg	tggagaccaa	ggtcagcgctg	gagctgcacc	gcgaggagca	gggcagtcac	8700
cgtggagagt	accccccgga	ccaggagagc	gggggcgag	ccaggcttgc	tagcagccag	8760
ccccagagc	agaggaaagg	catcttgaaa	aataaaagtca	cctacccgcc	gccgctgacg	8820
ctgacggagc	agacgctgaa	gggccggctc	cgggagaagc	tggccgactg	tgagcagagc	8880

1209120

cccacatcct	cgcgcacgtc	ttccctgggc	tctggcggcc	ccgactgcgc	catcacagtc	8940
aagagccctg	ggagggagcc	ggggcgtagc	cacctcaacg	gggtggccat	gaatgtgcgc	9000
actgggagcg	cccaggccga	tggctccgac	tctgagaaac	cgtgaggcaa	gcccgtcacc	9060
ccacacaggc	tgcggcatca	ccctcagacc	ttggagccca	aggggcccact	gcccttgaag	9120
tggagtgggc	ccagagtgtg	gcggtcccca	tggtagcagc	cccccgactg	atcatccaga	9180
cacaaaggtc	ttggttctcc	caggagctca	gggcctgtca	gacctggtga	caagtgccaa	9240
agggcacagg	catgagggag	gcgtggacca	ctgggcccagc	accgctgagt	cctaagactg	9300
cagtcaaagc	cagaactgag	aggggacccc	agactggggc	cagaggctgg	ccagagttca	9360
ggaacgccgg	gcacagacca	aagaccgcgg	tccagccccg	cccaggcggg	catctcatgg	9420
cagtgcggac	ccgtggctgg	cagcccgggc	agtcctttgc	aaaggcaccc	cttgtcttaa	9480
aatcacttcg	ctatgtggga	aagggtggaga	tactttttata	tattttgtatg	ggactctgag	9540
gagggtgcaac	ctgtatatat	attgcattcg	tgctgacttt	gttatcccga	gagatccatg	9600
caatgatctc	ttgctgtctt	ctctgtcaag	attgcacagt	tgtacttgaa	tctggcatgt	9660
gttgacgaaa	ctggtgcccc	agcagatcaa	aggtgggaaa	tacgtcagca	gtggggctaa	9720
aaccaagcgg	ctagaagccc	tacagctgcc	ttcggccagg	aagtgaggat	ggtgtggggc	9780
ctccccgccg	gccccctggg	tccccagtgt	tcgctgtgtg	tgcgtttgtc	ctctgctgcc	9840
atctgccccg	gctgtgtgaa	ttcaagacag	ggcagtgcag	cactaggcag	gtgtgaggag	9900
ccctgctgag	gtcactgtgg	ggcacggttg	ccacacggct	gtcatttttc	acctggtcat	9960
tctgtgacca	ccacccccctc	ccctcaccgc	ctcccagggtg	gcccgggagc	tgcagggtggg	10020
gatggctttg	tccttttgctc	ctgctccccg	tgggacctgg	gaccttaaaag	cgttgcagggt	10080
tcctgatattg	gacagagggtg	tggggcccttc	caggccggtta	catacctcct	gccaattctc	10140
taactctctg	agactgagag	gatctccagg	cagggttctc	ccctctggag	tctgaccaat	10200
tacttcattt	tgtttcaaat	ggccaattgt	gcagaggggac	aaagccacag	ccacactctt	10260
caacggttac	caaactgttt	ttggaaaattc	acaccaagggt	cgggcccact	gcaggcagct	10320
ggcacagcgt	ggccccgaggg	gctgtggaac	gggtcccggg	actgtcagac	atgtttgatt	10380
ttagcgtttc	ctttgttctt	caaatacagg	gcccataata	gtgatcagca	cagctgtctc	10440
caaataggag	aaaccataaa	ataggatgaa	aatcaagtaa	aatgcaaaga	tgtccacact	10500
gttttaaaact	tgaccctgat	gaaaatgtga	gcaactgttag	cagatgccta	tgggagagga	10560
aaagcgtatc	tgaaaatggg	ccaggacagg	aggatgaaat	gagatcccag	agtcctcaca	10620
cctgaatgaa	ttatacatgt	gccttaccag	gtgagtgggtc	tttcgaagat	aaaaaactct	10680
agtcccttta	aacgtttgcc	cctggcggtt	cctaagtacg	aaaagggttt	taagtcttcg	10740
aacagtctcc	tttcatgact	ttaacaggat	tctgccccct	gagggtgtaat	ttttttgttc	10800
tatttttttc	cacgtactcc	acagccaaca	tcacgagggtg	taatttttta	tttgatcaga	10860
actgttacca	aaaaacaact	gtcagtttta	ttgagatggg	aaaaatgtaa	acctattttt	10920

1209120

attacttaag	actttatggg	agagattaga	cactggagggt	ttttaacaga	acgtgtat	10980
attaatgttc	aaaacactgg	aattacaaat	gagaagagtc	tacaataaat	taagattttt	11040
gaatttgtac	ttctgcggtg	ctggtttttc	tccacaaaca	cccccgcccc	tcccatgcc	11100
caggggtggcc	gtggaagggg	cggtttacgg	acgtgcagct	gagctgtccg	tgtcccatgc	11160
tccctcagcc	agtggaacgt	gccggaactt	tttgtccatt	ccctagtagg	cctgccacag	11220
cctagatggg	cagtttttgt	ctttcaccaa	atttgaggac	tttttttttt	tgccattatt	11280
tcttcagttt	tcctttcttg	cactgatctt	tctcctctcc	ttctgtgact	ccagtgactc	11340
agacgttaga	cctcttgatg	ttttcccact	ggtccctgag	gctctgttc		11389

<210> 51
 <211> 2112
 <212> DNA
 <213> Homo sapiens

<400> 51

tgcgcatggc	acgttgcgta	ctccccctccc	agcaaccggt	ctggcggcgg	cgcggcagta	60
aaactgagga	ggcggagcca	agacggtcgg	ggctgcttgc	taactccagg	aacaggttta	120
agtttttgaa	actgaagtag	gcctacacag	taggaactca	tgtcatttct	taccaatgat	180
gcgagctcag	agtcaatagc	atccttctct	aaacaggagg	tcatgagtag	ctttctgcca	240
gagggagggg	gttacgagct	gctcactgtg	ataggcaaag	gatttgagga	cctgatgact	300
gtgaatctag	caaggtagaa	accaacagga	gagtacgtga	ctgtacggag	gattaaccta	360
gaagcttggt	ccaatgagat	ggtaacattc	ttgcagggcg	agctgcatgt	ctccaaactc	420
ttcaaccatc	ccaatatcgt	gccatatcga	gccactttta	ttgcagacaa	tgagctgtgg	480
gttggtcacat	cattcatggc	atacggttct	gcaaaagatc	tcattctgtac	acacttcatg	540
gatggcatga	atgagctggc	gattgcttac	atcctgcagg	gggtgctgaa	ggccctcgac	600
tacatccacc	acatgggata	tgtacacagg	agtgtcaaag	ccagccacat	cctgatctct	660
gtggatggga	aggtctacct	gtctggtttg	cgcagcaacc	tcagcatgat	aagccatggg	720
cagcggcagc	gagtgggtcca	cgattttccc	aagtacagtg	tcaaggttct	gccgtggctc	780
agccccgagg	tcctccagca	gaatctccag	ggttatgatg	ccaagtctga	catctacagt	840
gtgggaatca	cagcctgtga	actggccaac	ggccatgtcc	cctttaagga	tatgcctgcc	900
acccagatgc	tgctagagaa	actgaacggc	acagtgccct	gcctgttgga	taccagcacc	960
atccccgctg	aggagctgac	catgagccct	tcgcgctcag	tggccaactc	tggcctgagt	1020
gacagcctga	ccaccagcac	cccccgcccc	tccaacgggtg	actcgccctc	ccacccttac	1080
caccgaacct	tctcccccca	cttccaccac	tttgtggagc	agtgccttca	gcgcaaccgg	1140
gatgccaggc	ccagtgccag	caccctcctg	aaccactctt	tcttcaagca	gatcaagcga	1200
cgtgcctcag	aggctttgcc	cgaattgctt	cgctcctgtca	cccccatcac	caattttgag	1260
ggcagccagt	ctcaggacca	cagtggaaac	tttggcctgg	taacaaacct	ggaagagctg	1320
gaggtggacg	attgggagtt	ctgagcctct	gcaaactgtg	cgcatctctc	agccagggat	1380

1209120

gcagaggcca	cccagaggcc	cttcctgagg	gccggccaca	ttcccgccct	cctgggcaga	1440
ttgggtagaa	aggacattct	tccaggaaag	ttgactgctg	actgattggg	aaagaaaatc	1500
ctggagagac	acttcactgc	tccaaggctt	ttgagacaca	agggaatctc	aacaaccagg	1560
gatcaggagg	gtccaaagcc	gacattccca	gtcctgtgag	ctcagggtgac	ctcctccgca	1620
gaagagagat	gctgctctgg	ccctggggagc	tgaattccaa	gcccagggtt	tggctcctta	1680
aacccgagga	ccgccacctc	ttcccagtg	ttgcgaccag	cctcattcta	tttaactttg	1740
ctctcagatg	cctcagatgc	tataggtcag	tgaaggggca	agtagtaagc	tgccctgcctc	1800
ccttcctca	gacctctccc	tcataattcc	agagaagggc	atttctgtct	ttttaagcac	1860
agactaaggc	tggaacagtc	catccttatc	cctcttctgg	cttggggccct	gacacctaag	1920
tctttccac	ggtttatgtg	tgtgcctcat	tcctttccca	ccaagaatcc	atcttagcgc	1980
ctcctgccag	ctgccctggt	gctttctcca	agggccatca	gtgtcttgcc	tagcttgagg	2040
gcttaagtcc	ttatgctgtg	ttagtttcgt	tgtcagaaca	aattaaaatt	ttcagagacg	2100
ctgctggaaa	aa					2112

<210> 52
 <211> 2223
 <212> DNA
 <213> Homo sapiens

<400> 52	
tgcgcatggc	acgtttgcgta
ctccccctccc	agcaaccggg
ctggcggcgg	cgcggcagta
60	
aaactgagga	ggcggagcca
agacggtcgg	ggctgcttgc
taactccagg	aacaggttta
120	
agtttttgaa	actgaagtag
gcctacacag	taggaactca
tgtcatttct	tgtaagtaaa
180	
ccagagcgaa	tcaggcgggtg
ggctctcgga	aagttcattg
ttgagggctt	aagagatttg
240	
gaactatttg	gagagcagcc
tccgggtgac	actcgagaaa
aaaccaatga	tgcgagctca
300	
gagtcaatag	catccttctc
taaacaggag	gtcatgagta
gctttctgcc	agaggggagg
360	
tgttacgagc	tgctcactgt
gataggcaaa	ggatttgagg
acctgatgac	tgtgaatcta
420	
gcaaggtaga	aaccaacagg
agagtacgtg	actgtacgga
ggattaacct	agaagcttgt
480	
tccaatgaga	tggtaacatt
cttgcaaggc	gagctgcatg
tctccaaact	cttcaaccat
540	
cccaatatcg	tgccatatcg
agccactttt	attgcagaca
atgagctgtg	ggttgtcaca
600	
tcattcatgg	catacggttc
tgcaaaagat	ctcatctgta
cacacttcat	ggatggcatg
660	
aatgagctgg	cgattgctta
catcctgcag	gggggtgctga
aggccctcga	ctacatccac
720	
cacatgggat	atgtacacag
gagtggtcaa	gccagccaca
tcctgatctc	tgtggatggg
780	
aagggtctacc	tgtctggttt
gcgagcaaac	ctcagcatga
taagccatgg	gcagcggcag
840	
cgagtgggtcc	acgattttcc
caagtacagt	gtcaagggttc
tgccgtggct	cagccccgag
900	
gtcctccagc	agaatctcca
gggttatgat	gccaaagtctg
acatctacag	tgtgggaatc
960	
acagcctgtg	aactggccaa
cggccatgtc	ccctttaagg
atatgcctgc	caccagatg
1020	

1209120

ctgctagaga aactgaacgg cacagtgtccc tgcctgttgg ataccagcac catccccgct	1080
gaggagctga ccatgagccc ttcgcgctca gtggccaact ctggcctgag tgacagcctg	1140
accaccagca cccccggcc ctccaacggt gactcgcctt cccacccta ccaccgaacc	1200
ttctcccccc acttccacca ctttgtggag cagtgccttc agcgcaaccc ggatgccagg	1260
cccagtgtca gcaccctcct gaaccactct ttcttcaagc agatcaagcg acgtgcctca	1320
gaggctttgc ccgaattgct tcgtcctgtc acccccatca ccaattttga gggcagccag	1380
tctcaggacc acagtggaat ctttggcctg gtaacaaacc tggaagagct ggagggtggac	1440
gattgggagt tctgagcctc tgcaaactgt gcgcattctc cagccaggga tgcagaggcc	1500
accagaggc ccttcctgag ggccggccac attcccgccc tcctgggcag attgggtaga	1560
aaggacattc ttccaggaaa gttgactgct gactgattgg gaaagaaaat cctggagaga	1620
catttactg ctccaaggct tttgagacac aagggaatct caacaaccag ggatcaggag	1680
ggtccaaagc cgacattccc agtcctgtga gctcagggtga cctcctccgc agaagagaga	1740
tgctgtctg gccctgggag ctgaattcca agcccagggt ttggctcctt aaacccgagg	1800
accgccacct cttcccagtg cttgcgacca gcctcattct atttaacttt gctctcagat	1860
gcctcagatg ctatagggtca gtgaaagggc aagtagtaag ctgcctgcct cccttccctc	1920
agacctctcc ctcataattc cagagaaggg catttctgtc tttttaagca cagactaagg	1980
ctggaacagt ccatccttat ccctcttctg gcttgggccc tgacaccta gtccttccca	2040
cggtttatgt gtgtgcctca ttcctttccc accaagaatc catcttagcg cctcctgcca	2100
gctgccctgg tgctttctcc aagggccatc agtgtcttgc ctagcttgag ggcttaagtc	2160
cttatgctgt gttagtttcg ttgtcagaac aaattaaaat tttcagagac gctgctggaa	2220
aaa	2223

<210> 53
 <211> 2658
 <212> DNA
 <213> Homo sapiens

<400> 53

tgcgcatggc acgttgcgta ctccccctccc agcaaccgggt ctggcggcgg cgcggcagta	60
aaactgagga ggcggagcca agacggtcgg ggctgcttgc taactccagg aacagggttta	120
agtttttgaa actgaagtag gcctacacag taggaactca tgtcatttct taccaatgat	180
gcgagctcag agtcaatagc atccttctct aaacaggagg tcatgagtag ctttctgcca	240
gagggagggg gttacgagct gctcactgtg ataggcaaag gatttgagga cctgatgact	300
gtgaatctag caagggtacaa accaacagga gagtacgtga ctgtacggag gattaacct	360
gaagcttggt ccaatgagat ggtaacattc ttgcagggcg agctgcatgt ctccaaactc	420
ttcaaccatc ccaatatcgt gccatatcga gccactttta ttgcagacaa tgagctgtgg	480
gttgacacat cattcatggc atacggttct gcaaaagatc tcatctgtac acacttcagt	540
gatggcatga atgagctggc gattgcttac atcctgcagg ggggtgctgaa ggccctcgac	600

1209120

tacatccacc	acatgggata	tgtacacagg	agtgtcaaag	ccagccacat	cctgatctct	660
gtggatggga	aggtctacct	gtctggtttg	cgcagcaacc	tcagcatgat	aagccatggg	720
cagcggcagc	gagtgggtcca	cgattttccc	aagtacagtg	tcaaggttct	gccgtggctc	780
agccccgagg	tcctccagca	gaatctccag	ggttatgatg	ccaagtctga	catctacagt	840
gtgggaatca	cagcctgtga	actggccaac	ggccatgtcc	cctttaagga	tatgcctgcc	900
acccagatgc	tgctagagaa	actgaacggc	acagtgccct	gcctgttgga	taccagcacc	960
atccccgctg	aggagctgac	catgagccct	tcgcgctcag	tggccaactc	tggcctgagt	1020
gacagcctga	ccaccagcac	ccccggccc	tccaacggtg	actcgccctc	ccaccctac	1080
caccgaacct	tctcccccca	cttccaccac	tttgtggagc	agtgccctca	gcgcaacccg	1140
gatgccaggt	atccctgctg	gcctgggcct	gggcttcggg	agagcagagg	gtgctcagga	1200
gggtaaggcc	aggggtgtgaa	gggacttacc	tcccaaagggt	tctgcagggg	aatctggagc	1260
tacacacagg	agggatcagc	tcctgggtgt	gtcagaggcc	agcctgggga	gctctggcca	1320
ctgcttccca	tgagctgagg	gagagggaga	ggggacccga	ggctgaggca	taagtggcag	1380
gatttcggga	agctggggac	acggcagtga	tgctgcggtc	tctcctcccc	tttccctcca	1440
ggcccagtg	cagcaccctc	ctgaaccact	ctttcttcaa	gcaggatatc	tagccccttc	1500
gttctgggtc	tggttctagt	tctggttcta	acaactcaca	atccctttag	ctttctctcc	1560
cctccctttg	aatgagagaa	actaccccg	ttccgaagcc	cctgaaagac	actgctcctt	1620
cctctcatgg	agttggctcc	gacagcccgt	ctgccaccag	gcatgggttc	cttgcccat	1680
ggtgtcctgg	gacccagagc	aacaggatct	gtcaccacc	tctctcttct	ccccagatc	1740
aagcgacgtg	cctcagaggc	tttgcccgaa	ttgcttcgtc	ctgtcacccc	catcaccaat	1800
tttgagggca	gccagtctca	ggaccacagt	ggaatctttg	gcctggtaac	aaacctggaa	1860
gagctggagg	tggacgattg	ggagtctga	gcctctgcaa	actgtgcgca	ttctccagcc	1920
agggatgcag	aggccaccca	gaggcccttc	ctgagggccg	gccacattcc	cgccctcctg	1980
ggcagattgg	gtagaaagga	cattcttcca	ggaaagtga	ctgctgactg	attgggaaag	2040
aaaatcctgg	agagacactt	cactgtctca	aggcttttga	gacacaaggg	aatctcaaca	2100
accagggatc	aggaggggtcc	aaagccgaca	ttcccagtc	tgtgagctca	ggtgacctcc	2160
tccgcagaag	agagatgctg	ctctggccct	gggagctgaa	ttccaagccc	agggtttggc	2220
tccttaaacc	cgaggaccgc	cacctcttcc	cagtgcctgc	gaccagcctc	attctattta	2280
actttgctct	cagatgcctc	agatgctata	ggtcagtga	agggcaagta	gtaagctgcc	2340
tgccctccct	ccctcagacc	tctccctcat	aattccagag	aagggcattt	ctgtcttttt	2400
aagcacagac	taaggctgga	acagtccatc	cttatccctc	ttctggcttg	ggccctgaca	2460
cctaagtctt	tcccacggtt	tatgtgtgtg	cctcattcct	ttcccaccaa	gaatccatct	2520
tagcgccctc	tgccagctgc	cctgggtgctt	tctccaaggg	ccatcagtgt	cttgccctagc	2580
ttgagggcctt	aagtccttat	gctgtgttag	tttcgttgtc	agaacaaatt	aaaattttca	2640

1209120

gagacgctgc tggaaaaa

2658

<210> 54
<211> 2194
<212> DNA
<213> Homo sapiens

<400> 54
 tgcgcatggc acgttgcgta ctccccctccc agcaaccggg ctggcggcgg cgcggcagta 60
 aaactgagga ggcggagcca agacgggtcgg ggctgcttgc taactccagg aacagggttta 120
 agtttttgaa actgaagtag gcctacacag taggaactca tgtcatttct tgtaagtaaa 180
 ccagagcgaa tcaggcgggtg ggtctcggaa aagttcattg ttgagggctt aagagatttg 240
 gaactatttg gagaccaatg atgcgagctc agagtcaata gcatccttct ctaaacagga 300
 ggtcatgagt agctttctgc cagagggagg gtgttacgag ctgctcactg tgataggcaa 360
 aggatttgag gacctgatga ctgtgaatct agcaagggtac aaaccaacag gagagtacgt 420
 gactgtacgg aggattaacc tagaagcttg ttccaatgag atggtaacat tcttgagggg 480
 cgagctgcat gtctccaaac tcttcaacca tccaatatc gtgccatata gagccacttt 540
 tattgcagac aatgagctgt gggttgtcac atcattcatg gcatacgggt ctgcaaaaaga 600
 tctcatctgt acacacttca tggatggcat gaatgagctg gcgattgctt acatcctgca 660
 ggggggtgctg aaggccctcg actacatcca ccacatggga tatgtacaca ggagtgtcaa 720
 agccagccac atcctgatct ctgtggatgg gaagggtctac ctgtctgggt tgcgcagcaa 780
 cctcagcatg ataagccatg ggcagcggca gcgagtgggt cacgattttc ccaagtacag 840
 tgtcaagggt ctgccgtggc tcagccccga ggtcctccag cagaatctcc agggttatga 900
 tgccaagtct gacatctaca gtgtgggaat cacagcctgt gaactggcca acggccatgt 960
 cccctttaag gatatgcctg ccacccagat gctgctagag aaactgaacg gcacagtgcc 1020
 ctgcctgttg gataccagca ccatccccgc tgaggagctg accatgagcc cttcgcgctc 1080
 agtggccaac tctggcctga gtgacagcct gaccaccagc accccccggc cctccaacgg 1140
 tgactcgccc tcccaccct accaccgaac cttctcccc cacttccacc actttgtgga 1200
 gcagtgcctt cagcgcaacc cggatgccag gccagtgcc agcaccctcc tgaaccactc 1260
 tttcttcaag cagatcaagc gacgtgcctc agaggctttg cccgaattgc ttcgtcctgt 1320
 ccccccatc accaattttg agggcagcca gtctcaggac cacagtggaa tctttggcct 1380
 ggtaacaaac ctggaagagc tggaggtgga cgattgggag ttctgagcct ctgcaaactg 1440
 tgcgcattct ccagccaggg atgcagaggc caccagagg cccttcctga gggccggcca 1500
 cattcccgcc ctcttgggca gattgggtag aaaggacatt cttccaggaa agttgactgc 1560
 tgactgattg ggaaagaaaa tcctggagag acacttcact gctccaaggc ttttgagaca 1620
 caagggaaatc tcaacaacca gggatcagga ggggtccaaag ccgacattcc cagtcctgtg 1680
 agctcagggtg acctcctccg cagaagagag atgctgctct ggccctggga gctgaattcc 1740

1209120

aagcccaggg	tttggctcct	taaacccgag	gaccgccacc	tcttcccagt	gcttgcgacc	1800
agcctcattc	tatttaactt	tgctctcaga	tgccctcagat	gctatagggtc	agtgaaaggg	1860
caagtagtaa	gctgcctgcc	tcccttcctt	cagacctctc	cctcataatt	ccagagaagg	1920
gcatttctgt	ctttttaagc	acagactaag	gctggaacag	tccatcctta	tccctcttct	1980
ggcttggggc	ctgacaccta	agtctttccc	acggtttatg	tgtgtgcctc	attcctttcc	2040
caccaagaat	ccatcttagc	gcctcctgcc	agctgccctg	gtgctttctc	caagggccat	2100
cagtgtcttg	cctagcttga	gggcttaagt	ccttatgctg	tgttagtttc	gttgtcagaa	2160
caaattaaaa	ttttcagaga	cgctgctgga	aaaa			2194