

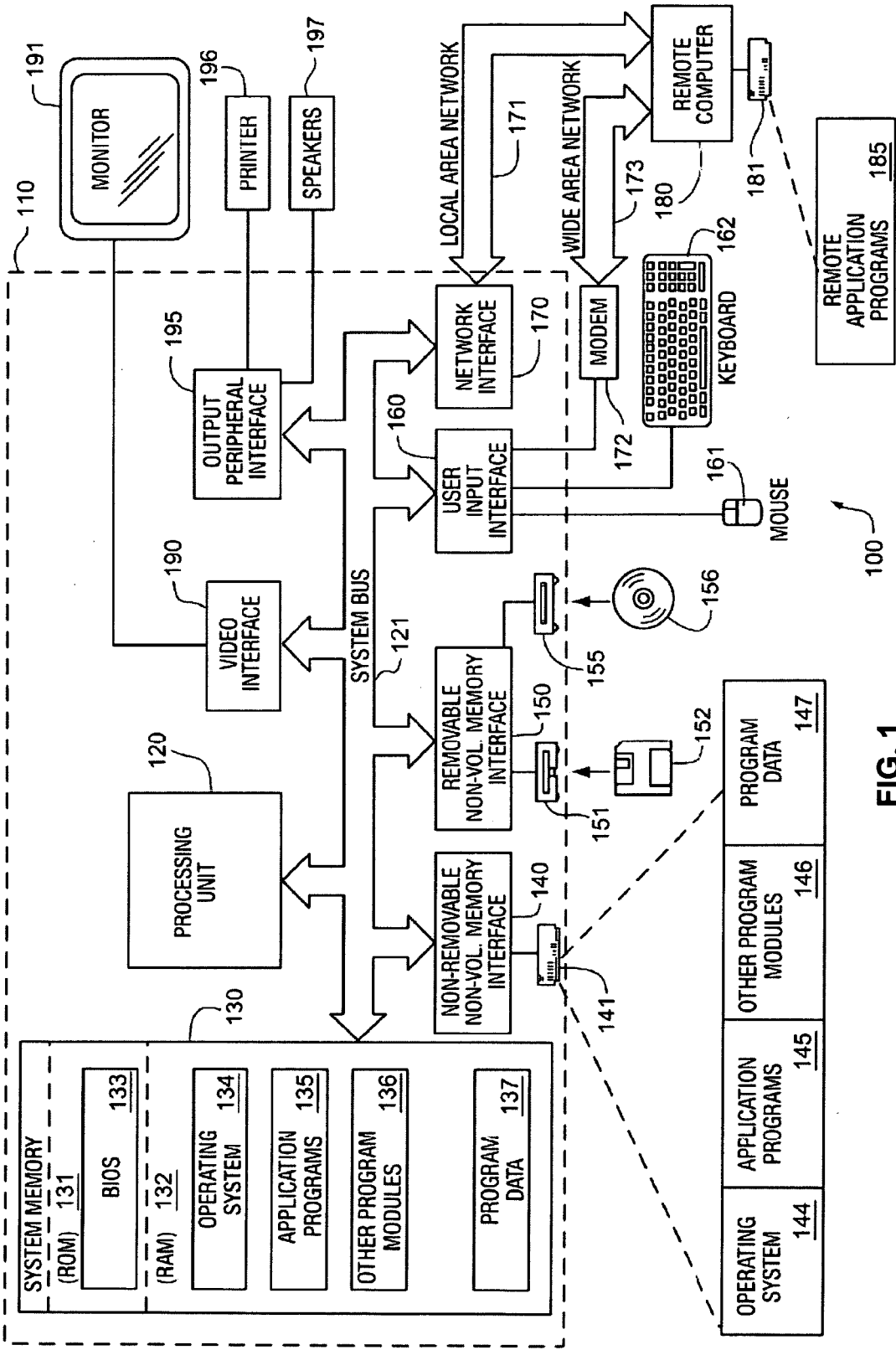


FIG. 1

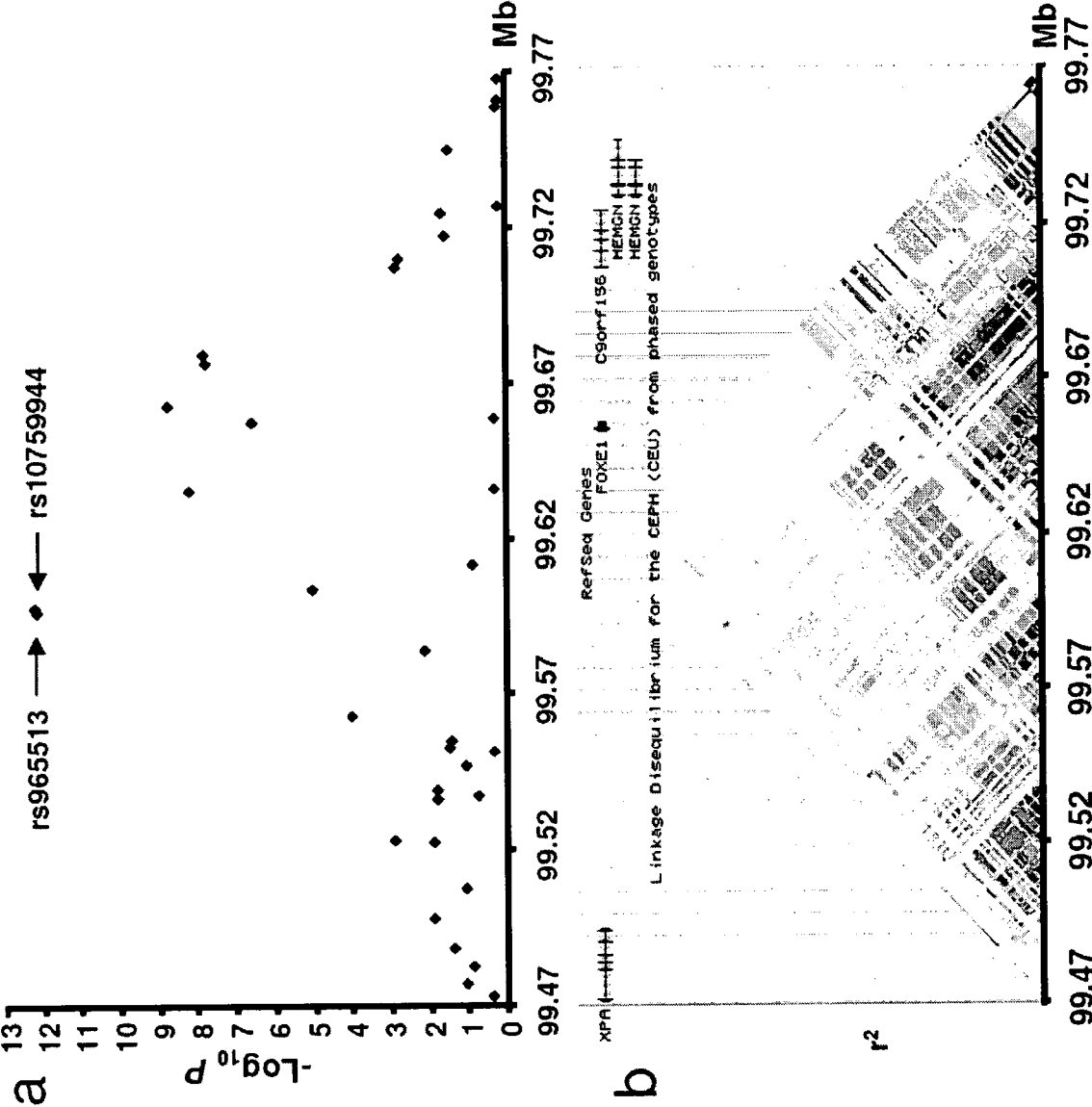


FIG. 2

SEQUENCE LISTING

<110> deCODE Genetics ehf

<120> GENETIC VARIANTS USEFUL FOR RISK ASSESSMENT OF THYROID CANCER

<130> F2560-PC00

<160> 229

<210> 1

<211> 599

<212> DNA

<213> Homo sapiens

<400> 1

caaatatgaa	ggaagaagag	tggaatacag	gaattagaat	acttgaaata	gagtagttat	60
gatgatgaac	cacagaaatt	tagctgggta	aggaagggaag	tgagaacctg	agggaatga	120
cagatagtg	gaaaagtga	agggccagt	tattggaagt	cttgatgagg	tggaattgga	180
atactgcccc	aaggagctg	ggatgaaag	aggtagcagg	cagagaatgt	aggtttttgg	240
tgatggtatg	gtcatggaca	tgacaaagg	aatgagtggc	tggaatggaa	cagatcaaar	300
gagtaaatta	aaaagaagat	gtattagtct	gttctcacia	tgctaacaaa	gacataacct	360
gagcctgggt	aatttataaa	agaaagagat	ttaattgact	cgcagttcag	catggctggg	420
gaggcctcag	gaaccttaca	atcatggtgg	aatgggaagc	caacacgtac	ttcttcacat	480
ggtagcagga	agcaaaagt	ctgagcaaaa	gggggaaaag	gcccttataa	aaccatcaga	540
tcttgtgaga	actcactcat	tatcaccaga	acagtatgag	ggtaactgtc	cccatgatt	599

<210> 2

<211> 599

<212> DNA

<213> Homo sapiens

<400> 2

tgcttacccc	aagtcacata	gcaagttagg	caggagactg	ggcacaagac	ctcctgactt	60
ccgcaccacc	acaacctca	aatttttttt	aatgagtgtt	tttctttaa	acatagtatg	120
aacactggaa	cagagggaaa	tgcagtattc	caatttccat	ccacagtgtt	gtccgacctg	180
gcactcact	ggagtccca	agcacaggcc	ctggcagcag	accaggctgg	gttcaagtcc	240
tactcctgcc	ttttgctagc	cccaaggctt	tggaataa	ctgcagtggg	aattattaas	300
tggttgaatt	attaaattgt	tggaattatt	aagtgaacta	atgggcacag	acattttgtt	360
ccacacttag	catatagtaa	gcacccaatt	attgctattg	ccattagcag	ctccggcact	420
tacctgccag	gtgtgcaagg	ccctcaactg	ctaagccttc	tgtctcaaat	gagacatcac	480
caagattttc	cctaactcca	gagccctgta	gtctccacca	cctggcccaa	atgaaacgat	540
ggaccccaga	atcagggaag	tatgggtggg	acctgtgtca	cttcctgtt	tctctttct	599

<210> 3

<211> 599

<212> DNA

<213> Homo sapiens

<400> 3

ggcctccaat	atggctcagc	acagccctga	tagaaaatat	tttgaaattt	tgcttgtatg	60
aaatgtctct	attctattct	ttoatttagc	tggaattga	attctaggtc	aaaaataatt	120
ttccttcaga	atittggagg	caatgttcca	tcatcttctc	acttcagtg	ttactttctg	180
agaagtcttc	aatcactata	attgctgacc	atitttgtac	gtgacctggg	tttgctgttt	240
ggaacctcat	agaatctttt	otttatcacc	agtattcttg	tactttgcag	taattgtttk	300
gtggagcttt	ttgtttgttt	gtttgttttt	taatctatgg	acctgattct	caaggattct	360
ttcattctgg	agacttatgc	ccttggggtc	tggagaaatc	aatctctttt	taaagaaaat	420
aatttttcac	cttctttttt	tcaactgtctg	gaagtaactat	tagtcaaat	taotgaattc	480
gtccttattt	ttcttacatt	ttctccacta	ttttcatctc	tttgcaattt	gtttttctatt	540
ttcggacaga	ctgccttggt	gataagagga	taagtgcagt	ctttcagata	cattttctt	599

<210> 4

<211> 599

<212> DNA
<213> Homo sapiens

<400> 4
attatattttgc actaatTTTT atatttttaaa atgctgttta aaatatcatt tattgtgatt 60
attgagatttt tgggtgctct cttgcatttt gcacttgaag caagtgcctc actttccttt 120
ctcttgctccc atccttaatt cccatgacct ttcttgggaa gttactgaaa tatgtgcttc 180
cctcaaaaaa ggagaaaatc aagaaggaga aagacatgga cacaagggca aggoatgaaa 240
cacggcagaa agatcaaggg aattcctgta gtgttgggtga aggtgatcc tagggtgatr 300
acctgcccc aatcagagag gccaaagagac ctgattgca gcaagacaga aggcaagaag 360
tggaaaactgg taagtccata cgaaaacaca gagaggaggg cattaaggat ggtaataatt 420
ttttttaatt cagcaaatga aaacacagat aattattatc tccagacaaa accaaaagtc 480
caaaaatgga aataaataaa taaataaata aataaataaa taaatagtat tctactagtt 540
cagctgtgaa aagcatttag ataatactat aaacactgac tattgatcta attaacatt 599

<210> 5
<211> 599
<212> DNA
<213> Homo sapiens

<400> 5
tactgtatta tgtacttgaa aattactgag agggtagatc tcaagtgttt tcatcacaca 60
cacacatata cacacacaca cacacacaca cacacacaca cacacaaatg taaccacatg 120
aggtgatgaa tatattaatt agcttgattg tggtaatcat ttcacaatgt atatacacat 180
caaaacatca tgttgtagac cttaaatata tacaattttt atttgccaat tatatctcaa 240
ttgttaaaaa tcaagtaata gcaagttaat tgagttatat agagatgtgg aagaaaatay 300
taaaaaagtg aaagagggtg gaaaaaattt gcttttgggt gggggatatg ggagaaggca 360
aagcaatagg gctactcttt ttgtgtcaaa tottacagag ttatttgatc tttaaactat 420
gtatctgtat aacttttaaaa aatataaaaa ctttctaaaa acgatgtatt gatagctgtt 480
ttcagattag ttgaaacatt tgggaagaat tagagaaaac tacctagatg actcatccaa 540
gcaattatta agtccaggaa aaacaaaaag aagtacaaaa agagagacat agtaatatg 599

<210> 6
<211> 599
<212> DNA
<213> Homo sapiens

<400> 6
tcagggtcaaa gcagcaaggc tttttctgac tttagcctcag aagtcataca acatcacttc 60
tgccatattc tttttattac aagtgagagt tccaggattg gtccagggtc aagggaaggg 120
tagtacacat acacgtgaac actgggaggg atagtttatt gagacctct tacagctacc 180
tggagcatag agtcagaagt cttcctagct tctctgattg tactcgacct cttctccccg 240
ctatgcctct gaccatcctc ttaatttttg ctgggagttg ttgcagaaga cacatccatr 300
ctccagggtg gcacagtccc cttcgtggtc agcagaatgt gtacagcctc attgtgagca 360
gggccaacag taggttacca agctcctgca atgctggagt gccattacc aactcctgco 420
aacccactgc cacatagtat ctcatgggct cttgtttaag ctgaacatat tcactggggc 480
caccttgag aaettggcct tgacctgctt aaacacttga gcaagggtct attctgagag 540
cttggtatctt tcttgagacc aacaggactc acaggggttt tgcagatggg actaagagc 599

<210> 7
<211> 599
<212> DNA
<213> Homo sapiens

<400> 7
gtgggttggc aggagttggt aatgggcact ccagcattgc aggagcttgg taacctactg 60
ttggccctgc tcacaatgag gctgtacaca ttctgctgac cacgaagggg actgtgcaca 120
cctggagcat ggatgtgtct tctgcaacaa ctccagcca aaattaagag gatggtcaga 180
ggcatagcgg ggagaagggg tcgagtacaa tcagagaagc taggaagact tctgactota 240
tgctccagggt agctgtaaga gggctctcaat aaactatgct tcccagtgtt cactgtatrr 300
tgtactaccc ttcccttggg cctggaccaa tccctggaact ctcaottgta ataaaaagaa 360
tatggcagaa gtgatgttgt atgacttctg aggctaagtc agaaaaagcc ttgctgcttt 420
gacctgagtc tcttgaaca ttctctaagg agccgtgaac tactatataa gaagtctgcc 480

atactgggga	agccaagtgt	aggcactccg	gttaacagtc	cccgcacagc	tccgccttcc	540
agccattccc	actaagacat	cacacatata	aggggaagttg	tctcggatcc	tccagatca	599

<210> 8
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 8						
atcagagaag	ctaggaagac	ttctgactct	atgctccagg	tagctgtaag	aggggtctcaa	60
taaaactatgc	ctcccagtg	tcacgtgtat	gtgtactacc	cttcccttgg	acctggacca	120
atcctggaac	tctcacttgt	aataaaaaaga	atatggcaga	agtgatgttg	tatgacttct	180
gaggctaagt	cagaaaaagc	cttgctgctt	tgacctgagt	ctcttggaac	attctctaag	240
gagccgtgaa	ctactatata	agaagtctgc	catactgggg	aagccaagtg	taggcactcy	300
ggttaacagt	ccccgcacag	ctccgccttc	cagccattcc	cactaagaca	tcacacatac	360
aagggaagtt	gtctcggatc	ctccagatca	gcccatccac	aagotgaata	ctcccaagtg	420
acttcagcca	gtaccacaca	gagcagaaga	atctctcagc	tgatcctggc	ccaaattcct	480
gaccacaaaa	attataatac	aaaataaaat	ggttgctatt	ttaagccact	aagtgagggg	540
gcaattaata	tgacagcaata	cataaccagc	atatcacott	tgggagatgc	ttgagaata	599

<210> 9
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 9						
tcaggaggct	gagggtggaag	aatcccttga	actcaggagg	aggagggtgc	agtgagccga	60
gattgcacca	ctgcaactcca	gcctgggtga	aagagagaga	agagattctg	tctcacaaaa	120
aaaaaaaaaa	aaaaaaaaaa	aagtgccggg	cacgggtggct	cacgcctgta	atcccaacac	180
tttggaagc	tgaggctgtt	ggatcacttg	aggtctggag	ttcgagacca	gtctagccaa	240
catggtaaaa	cccatgtcta	ctaaaaatac	aaaaattagc	cagtttgtat	ggcacatgcy	300
taacatgcct	gtaatccag	gtacttggga	gactgaggca	ggaaaaattgc	ttgaaccag	360
gaagtggagt	ttgcagttag	ccaagatcgc	accaccgcac	tccagcctgg	gtgaaagaat	420
gagaccctgc	ctcaaaaaaa	aaaaaaaaaa	aaaaaaggaa	acaagagata	tgtcaaccaa	480
attcaatgtg	tatatcagaa	tccacaaagt	ctgtggattc	tgatatatac	attagtgtgt	540
gtgtgtgtgt	gtgtgtgtgt	atttgaacat	agactaggta	tttagtgata	ttaacaatt	599

<210> 10
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 10						
cccaacactt	tgggaagctg	aggctgttgg	atcacttgag	gtctggagtt	cgagaccagt	60
ctagccaaca	tggtaaaaco	catgtctact	aaaaatacaa	aaattagcca	gttgtgatgg	120
cacatgctta	acatgcctgt	aatcccaggt	acttgggaga	ctgaggcagg	aaaattgctt	180
gaaccacagga	agtggagttt	gcagttagcc	aagatcgcac	caccgcactc	cagcctgggt	240
gaaagaatga	gaccctgcct	caaaaaaaaa	aaaaaaaaaa	aaaaggaaac	aagagatatr	300
tcaaccaaatt	tcaatgtgta	tatcagaatc	cacaaagtct	gtggattctg	atatatacat	360
tagtgtgtgt	gtgtgtgtgt	gtgtgtgtat	ttgaacatag	actaggtatt	tagtgatatt	420
aacaattatt	tttaatttta	ggtgtgatat	aatattgtgt	atatttttta	aagataaaag	480
atgtatttag	agataaaaag	atatatgcat	cccaggtata	tctgggattt	gcttcaaattg	540
aatgcagtgg	taagggggta	ggaatagaca	gggtataagg	aggcaagatt	ggccatatg	599

<210> 11
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 11						
ggatgcataa	tggaggggag	tttgagagg	gaacaaaatt	attaaggagg	attatactgt	60
caccactcga	cacaatggag	actgetgett	ttaactgcct	taaacaagtc	ttgcttcata	120
ccagagctgc	gactcaaggga	ggcgtcgcca	tgggaagtgg	atcctgcccc	gocgatcaaa	180

tctttcttct	tggetgggtc	tttgagtgc	ggttttctgc	ctatacaaca	agagaatgga	240
tgtggctctt	agaatgcact	tgaaattctt	cttctctctt	atgggtgtctt	tgtggccagr	300
tgtcttgga	ggccagga	tgaaggcgcc	cttgataaa	gtggccatcc	tgcttctgag	360
agcatggggg	accaggcaa	gttactatct	ttctgtgagt	ctctgtttcc	tccagatgca	420
gtgagcagcg	gtatagcata	gggttagcca	gagggctcta	gagacatctg	gttcccgcaa	480
ctcaccagct	ctgcaacctt	gttaggccat	gcaactccta	tgtgccttat	tccctattta	540
taaagtaggg	atgataaactt	ccacctcaca	ttgttgatga	aaggataaaa	ttagataaat	599

<210> 12
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 12						
tggtgtgatt	ccgatgcagc	ccatctttcc	tgcctccaga	ctgcacctca	tactttctct	60
tcctcttgga	tacctctctt	ccagggtttt	gcttcatcag	atcttctcta	ttctccaagg	120
accagggtcca	gtatcaccct	tcaggaagat	ggggcactct	tcctgacccc	agtgcacct	180
agcccatctc	tggeccctcc	tgtggtcctg	atgaccatac	tttgctgggtg	ctgggggtctg	240
tgaccatgca	gtcctgggag	gaagccacct	tcaactcact	ctgcttctgc	cagtgtctccr	300
tgcaacatct	tgttcatggt	aggggtcac	gtttgtgtgg	aatgatgaga	atgggtgggtg	360
ggggcctggc	tgccacaggg	aggtatgtgt	agtctaccaa	agcagcatgc	tccttctctgg	420
tcctgaggtg	gtgaccatct	catggcagcc	ttgaagtga	aggaaagtga	ctactgaggc	480
tgctctccat	tttctcatcc	agaactgggg	ctgggaactt	agaagcaatg	gagggagcat	540
tgctttgctc	tgaatggagg	acagtttatg	gctttcacgt	tccaggccct	aggaggaaa	599

<210> 13
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 13						
actgcatggt	cacagacccc	agcaccagca	aagtatggte	atcaggacca	caggaagggc	60
cagagatggg	ctatggggca	ctggggtcag	gaagagtgcc	ccatcttctt	gaaggggtgat	120
actggacctg	gtccttggag	aataagaaa	atctgatgaa	gcaaaacctt	ggaaggagggg	180
tatccaagat	gaagagaaa	tatgaggtgc	agtctggagg	caggaaagat	gggctgcac	240
ggaatcacac	caggtagaat	ggttggttgg	ttgaattggg	aggtggagct	ggagagggtaw	300
gtagggcaga	tggcaaaagg	ccttaaattc	aggccaagga	gagtggactt	gattatggag	360
gcaacagaga	ctgagggaca	agagctggga	ttggaaagag	gccccagca	tatatgaagc	420
tcccctactc	atgcctgccc	cacacctttt	catgggatgt	tgtacagcac	actcccagat	480
ttggaaagcc	ccatctataa	atcttctagt	cccaggatca	ctcctttcta	cagtggcttc	540
agcagcaatg	acagagtcaa	gagaggtcac	ccttttaggtt	tctcaacaca	gttgccctt	599

<210> 14
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 14						
aggctttgtg	ttagatgatt	ttgcctgact	gtgggcta	ggaagtgggt	tgagcacatt	60
tgaggtaggc	tagagtaagc	tatgttgttc	agtaggttag	gtgtattaaa	tgcattttca	120
acttatgata	ttttcagttt	tcaatgggtt	tattgggaca	taaccacatc	ataagcaaag	180
aagcatctgt	attttactag	ggagcaggag	tgaggaacaa	ggagagcgaa	gcaggcaaga	240
gggaggatac	aaggatata	gatggagacg	gccactgcta	aatgcaoctc	attattcaay	300
ctcatggaaa	tgtcccccg	gaaaccatgc	aatctgtgtc	tcaggtaggg	tgaccaacca	360
tcctgggtttt	ctcaagatgg	ggggattttt	ccaggatgtg	gaactttcag	tgccaaaccc	420
aggaaggtcc	tgggaaaacg	agaatgagct	tgttccgtag	aatcaggacc	actggatttg	480
aggatagaaa	aatggaaaag	tagggaaggt	aacagttgat	ggtcttgatt	gctttatgaa	540
gtgcgacata	cagagatggg	tgtgggaaac	taaaaatggg	gtatgaatag	ttgaaagaa	599

<210> 15
 <211> 599
 <212> DNA
 <213> Homo sapiens

```

<400> 15
ctttcttctt ggagcaactgc aaaatcattt aaggggttata aacagaagag ctggtgcatt 60
agccagggtt ctccagagag acagaacctt taagatatat ataaatgtag agaaaaagat 120
tcatcatgag gaattggctt atgtgattat ctgctatctg caagctgaag gcccaggaaa 180
gccagtgggtg tagttcttat ccaagcccaa aggcctgaga atcaggagtg ctgatgtccg 240
agaataaaaag aagatggatg ttccagctcc agagaagaga gaatgtacc ttccctcgacm 300
ttttttgttc ttttccagtc ctcaatggac tgggtgatgc coatgcatgt tggggaggggt 360
ggagcttctt tactgcctgc tgattcaa atgctaatgtct tctggaaaca cgtgcacaga 420
catactcaga aataatgttt tgccagctat ctgggtatgc cttagcccag tgaagctggc 480
acacaaaatt aaccatcaca gtacgcatga tttgatttat acttttaaat acacctttaa 540
atttgatttc caccctggct gctgagtgga caatagaaag tacagggaaca agacaaata 599

```

```

<210> 16
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 16
agtagaggta taaaatataa gggttgatat atatgagtgt gagctagaca gagctgtatg 60
tagttttggg aggcactgca gcataattcaa agccttgggc cagaggagct caggagctca 120
ccaggggagaa gatggatcta aagaaggaga tctatggcca agacttgca cactatgaca 180
tttagaaatc aagcagcaaa tgtgcagggc tgctaaggag actacaaagg gacaactaaa 240
aagatatgat attctagaag ccaagagaag aaagcagttc aagaagggtg tggccaaacts 300
tatcaaccat ataatacgct gctgagagat caaataagga cagagaagtg accactggag 360
gtcatcagca gcctcgtgaa aaacagtctc agtgggtgag aagaaagaga ggaccatag 420
cacagggctg agcagagaat caaagggtgag gaagtagaca caggagacaa ctccctgaaa 480
agggcttctg tgagggacag cagagaacta gatcagctac aggaaaagggt agggtaagga 540
aaaggctctg caaacccctgg agatactgga acagggtctgc attttggggg aatgatctg 599

```

```

<210> 17
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 17
attaaaggag tggagagttg aaggaagagg gagaagggat ggggttcagaa gtgaccacag 60
aaggcaagga ggaccactta cacaacttcc ccacctcagg ccctcaggta ccagttttt 120
aagaggaaag acaccttcca cctcagtagg ttgtaaaaga aataatgtca tgagcagata 180
ttcagctttc atttaatgca aaaaagtaag tgagcactca gagaagtat tgaggatatt 240
ggaaagagtg taattgacag ccatgagttc acaaacccac agagaaaagg tttgggagcr 300
cagggaaggaa aggaaaaattg agtcaaaaaca gagactcttc caagtggcat gggaattagg 360
gtcccttga cctgaggagc ttgggtttct ggagatgact gaagtggaca ggaatgaaa 420
gcctcctgaa attagtctta agagtctctt aggggaagggt ggacttgaga caaaaggcac 480
aatgctggtt agcaacaatt ctctactgtg cctgtgagta atgcagaagc cagaatgagt 540
ccctgaaggg attgttctct taaggggagt tcactgtgaa ggcttccggg gaggggtcca 599

```

```

<210> 18
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 18
tggagctctg cactccttgt ctgcactttt ggctgtgtga ccttggggcca gtctctctcc 60
atctctgggc ctaggtccac acatctgtgc atagacagag caggcccagg tgccctcaga 120
gggacctcaa cttcatgagg atcagaagca ccttctgtgt tgggttccctc cctttgaggc 180
ctccctcgct tctctgtctg tctctcccca atcttgaagc aatttgtagt gtctgttggg 240
ttttcaotga tcccaactct gcctagagcc tgggaocaaat ccctctgtca gttcttctcy 300
ccttcaacct cctgcttgta aattggggct aataatacct gataactcac tttgctgcta 360
cagggattaa ctaattagtg gttattaagg gatagaggaa tgcagtactc tgctccatt 420
aagatgactt tctcctcca acttctgtct actgtgtgct caatctcagt gttagtccga 480
aaacctgaa agtccggact tccaggacct ccatgaraca gataaagaaa ctgaggctga 540
ggagcaggaa ggagtagcct gtgaccatgc agcgtcttgt agcagagagg ggaccagaa 599

```

<210> 19
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 19
 actttctcac cttccacact cataagggtg gattaggatc octgctgtcc ttccctgaag 60
 gggggcctttg aagagccatt gagatgatat aagtgaacc accttgtcaa ttagggagat 120
 aagaaatgga gtgtgaaaag atccaacotg ggttcgaacc ccagcctcac tgctcatttc 180
 ctgggtaacc atgataaatt aatctctctg gactttcatt tccttaccaa caaaaggagg 240
 tgataatatg tatcaggagg atttaattag atatcagata tgaggctctt agcacactcy 300
 gtgacatagg aagctctact aaatggcagc tottaataac agactgtgaa gtccaggagc 360
 ttactaacta cagtattttt ttttaacca aggacaagaa gacatagaat ctaagccaga 420
 ctgatgtcag tgaatgtgat ttacatggaa ataagaaaat tctgaataaa caaaactcgc 480
 cataccaggt gtgaaaaata agatcctgag gcactgggat ttttagcagc cattttgoot 540
 gtcattcttg tttcattttc ctaactctct gtggggatga gtttttaaat aatttaact 599

<210> 20
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 20
 attattaaga ggtatagcct ttagggagggtg attgagtcac gaggaactcca ccctcatgaa 60
 tgggattaga tacctttata aaagtgtttg gcagagggaa tttgcgcctt tttacacatc 120
 cgtccattct gccatgtgag gacacagcat tctccctctc tggaggatgc agtaacaaag 180
 caccatgtta gaagcagagc gagcagtcct catcagatcc caagcttgcc ttgatcatgg 240
 acttccagc cttccgaacc gtgagaaatg aaaaaaccca gtctgtggta tttttgtcx 300
 cagcacaaat ggattaagac aattgccaaa gtgtggaaat aactaagatg tccttcaata 360
 gctgagtga taaataatta catccatata gtggaatatt attcagtga aaaaagaaac 420
 aagccatcaa gccatgaaaa cacatggagg atccttaaat ccatactact aggtgaaaga 480
 aaccaatctg aaaaggctac ctactgtgtg attccaatta tatgatattc tggaaaaggc 540
 aaaactatgg agacagtaaa aagaccagtg attgcogggg gaactaaggt atgaataag 599

<210> 21
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 21
 ccaaagcagg tactgagtaa atatctgcta aatggacaaa tacctaactaa atgaatgaaa 60
 gaaaaaatga atggagggca tttgttaatc tcttgaaatg agaatttgtt tgaagattag 120
 cagttaaatt atttaaaaac tcatcccccac agagagttag gaaaatgaaa caagaatgac 180
 aggcaaaatg gctgctaaaa ataccagtgc ctcaggatct tatttttcac acctgggatg 240
 gogagttttg tttattcaga attttcttat ttocatgtaa atcacattca ctgacatcar 300
 tctggcttag attctatgtc ttcttgtcct ttggttaaaa aaaaatactg tagttagtaa 360
 gctcctggac ttccagtcct gttattaaga gctgccattt agtagagctt cctatgtcac 420
 agagtgtgct aagagcctca tatctgatat ctaattaaat cctcctgata catattatca 480
 cctccttttg ttggtaagga aatgaaagtc cagagagatt aatttatcat ggttaccag 540
 gaaatgagca gtgaggctgg ggttcgaacc cagggttgat cttttcacac tccatttct 599

<210> 22
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 22
 gccaaaatca gatctcatgg ctttctccta tcagtgaatt gagatagaga cactggcaag 60
 tgaaatggga ttttccctag accaatcaag cactcctctg aagttggggg tggggtcaga 120
 gaccccoagg ggtagctggc tgtgtctgta agtgtatgat ggggttaoct caatcacact 180
 cgggttctgt taggaaggaa caaaaggaaa acggcactgg caggtagccc acgatgtgca 240
 ctgcactacg tccaatgatt accttggcca aagctttcct taaacttggg coacatcaar 300

ttctcaggca	ggaagttttc	tcacctag	ctctgcaaga	gaatggtgat	cataagacat	360
ccacacacaa	tgtccagaat	caaccttcag	gtgtcgacat	ttgtcctagt	cactttgaga	420
aagggttctct	ggactgctgt	catgggatgg	actaaagtga	ggtggtgctg	aatgcaggaa	480
gtcagtcacag	ctgtcagccc	agcaccagta	aaatcagcag	acaccccagc	ccaggaatgc	540
caaggcatga	gtcaggacta	agttttcggt	cagaagggtg	aagaaaagaa	gggtgtgtt	599

<210> 23
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 23						
tggtgacgtt	attgactagt	ttgaaaacaa	ttattttctg	ggtaggataa	ggagacagcc	60
aatggtgtta	caatgtgtta	ctgtttgatc	gccattatcg	tttccaccaa	atttgtggtc	120
tgtatatgca	cgcttggtga	atgcattttg	gagtactcaa	aacaacacag	aagcagggct	180
caaaagattg	gaaaatttaa	taggaaatgc	taatgtcagt	gtgtattgta	tcatagaagg	240
atttcaaaaa	gagcagtgcc	acatagaaaa	tgaatgtgaa	tgtatitttc	aaggagatcy	300
gtgtccaaaa	aaataataag	cagctattta	tcatgatgca	agacttcaaa	acatagttaa	360
taatcatgaa	aatcagctag	ctcttatgga	ctatctctgt	gcaattgccc	ataatctatc	420
cctataatac	acttttcaat	atgtcaaatt	ttcttttttag	tttttaaata	ttttgggggt	480
ttcccoctac	tattttaaata	tgtcagtatt	attttttaca	attcactacc	cttcatatct	540
catctttgca	tcattttccaa	tactttagt	ataaattgta	tagaggcttt	cagagttct	599

<210> 24
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 24						
actacagatt	taaaatatta	atgtccctatg	acctagcaat	tccacttctg	agaatctatt	60
ttttaaataa	tgaagattgc	aaagactcct	gtacaaacat	attcattgcc	acattattta	120
taataataaa	aattagaaac	aaatgtctgt	tttaagctgg	gtttcccca	gaagttgacc	180
ctgagacaag	gttatggatg	caagtagttt	atttttagaag	tgaccctagg	aagcaccagt	240
agggggataa	ggcagtggtg	caggcaagga	aagaaacctt	gtaaagggtg	agttatcaar	300
ccggtttcca	ccatgggcaa	ctggggctca	gtcccacagg	ggaaacctca	gagacactgc	360
aaatcatacc	tcagaatgac	cccacctgac	aagttaggaa	gctggagtat	ttacccatca	420
actctatatc	tgtcatcatt	ttctgtgact	cctgggggca	ttaaacttcct	agaactttca	480
ttttgtttca	catgcagggt	aagtatacto	tcatagatag	aagaaagtcc	tcaggaaagt	540
cataggtgtt	cccagtaagc	agcctccagt	gaatagaggt	aagtcctatg	tgacacagc	599

<210> 25
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> variant
 <222> 300
 <223> a,c,g or t (any base)

<400> 25						
atgttcatga	attgaaaggc	tcaatgtcat	acaaagtatt	agcccaagcc	actaatttat	60
gagaaataca	gaagataaaa	acatgttgaa	ctacaccata	aaaatacaat	tcagaatatg	120
gaaaactcta	taagaccaac	aatccagctt	cttcaacaaa	taaattccag	agaaaaataa	180
agatggagca	atactttatg	tattaagtga	gataagacta	ctgaaagcca	acccaaaaca	240
aaatgtagaa	acaaaaacaa	ataaattcat	gaaatgaatg	aatgagttgg	aaattttaan	300
cttgactttt	aacaagtcac	caagttgecc	ttgatgatat	taaagactta	ttgttaattt	360
ttggggagta	caacaacagt	attgggggtt	tgatatcttt	tagagatata	cactgaaata	420
tttacagatg	aattttaaatg	acgtctggga	tttgtttcaa	aataatatga	gcacagggga	480
cgatgggggc	acagatggta	ccaaatttga	caggattgat	ggctgttagg	gctgggtaat	540
gagtacaaa	ggatacatca	tactatttgt	tttgtatatg	ctttaaattc	caattttttt	599

<210> 26
 <211> 599

<212> DNA
<213> Homo sapiens

<400> 26
ttaaaccctctc tggacotttag cttcctttatc tgggaaggtgg ggataataaaa agcaccccaac 60
ccacagaattt gtttttaagga ttaaatacat taagccatgt gaaacaotta gaacagggtt 120
ggcacatagc aagtgttcaa aatacagtac ctattattat tataggcatt tacatttttag 180
taaagcaata agtgtgtctc caagtcaatg aattccatct cgggtgtgtga aagttgttagc 240
tgcaatatcg aaagtactcc ctgtaatctt tgagaacaac tcgcagagaa aaggaaaagy 300
agcaaaaagt tgagtagtgt taaatgtttt gatttccaaa ataataaaaag aaaatgtatc 360
tgaaagactg cacttatcct cttatcaaca aggcagtctg tccgaaaata gaaaacaaat 420
ggcaaaagaga tgaaaatagt ggagaaaatg taagaaaaat aaggacgaat toagtaaatt 480
tgactaatag tacttccaga cagtgaaaaa aagaaggtga aaaattattt tctttaaaaa 540
gagattgatt tctccagaac ccaagggcat aagtctccag aatgaaagaa tccttgaga 599

<210> 27
<211> 599
<212> DNA
<213> Homo sapiens

<400> 27
ctttgatacc tgagaagttc tagtgccccc gaaaatcccc tacggaggta gtgactatga 60
actagaaaaa agtgggagca tagttgaagc caggcagctc ggggtccagag cttcttagta 120
gggtgcattgc actgtgccc cgtctatgtt taatcttttg agaaaccacc aaactttccc 180
atagttactg caccattttg cattcccacc agcaatgcat gaggattcca gtttctcoac 240
atcctacca gcaactgtta ttttctgggg ttttgtttgt ttgtttctgt tttcttatar 300
tcctcctggg aagtgtgcag aggtatctca ttgtggttat gatttgcatt tccctagtga 360
ctaataatgt tgagcatttt ttcattgtgt tagggggccat ttgtatatatt tctttggaaa 420
aatgtctatt cgagtccttt gccattttt gaatttaagt gttttattgt tactgagttt 480
tagatgttct ttatgtattt tgaatatata ttccattatc ggtatatgct ttacaaatat 540
tttctctcat ttactaggtc atctttttca ctttttgata gtattctctg atgcacaga 599

<210> 28
<211> 599
<212> DNA
<213> Homo sapiens

<400> 28
atcagattttg caagtgtgga cgcctggagt tttgttggtc agtaaaaagg gcagcccagg 60
ccaaagaatt aagtaacaag aaggctctga gaactcaaga aaagacagag aggcctttggg 120
gccaaagagt aaggcccaaa gacctgagtt tcttctctcag cccaaggctt ttctctctac 180
aagtcccttc cacaatccag gccagtcctc ctccagctt gaatttccat ggtttcttta 240
atagaagaac tggttacctc tgcgtctgca tgcaggggaa tctccgtcaa ggaatctggw 300
ggaattttcc ttgactcctt ggaccctctc cgtttttatt tacaaagtcg cccattcaaa 360
actgaggaaa gcagctgttg cagaagaaca tcttctaaag attcccaata gcacctccag 420
ccccctatgc acataaaatg gcctgctgca ggctggettc tccaggggtg ctgggaatac 480
ttgaagggct gaagatcagt ggggaagcaga aatcactggc ctgccacat caacaccaac 540
ccaccctgc tggattggga gaatgatttc caagggctctg gaacctgccc ttcctaact 599

<210> 29
<211> 599
<212> DNA
<213> Homo sapiens

<400> 29
tgtgtggaaa cgcctcaaagc gtttgcttga caaccttctg cggcagaggg ttggtcgaaac 60
gaagggagag gggctttaca ctgcctaaac aaaactcctg gtttccctct tcccaagtaa 120
tggaagaagca aaaaaccag atttcgtcct gtttcgtttt tacaaaggag gaaaaacttc 180
aaattttaaa atttttaact ggattatatt ataggcaact ttaatacgg gatttctgtg 240
ctctcagtaa ctttcaagat tctgagattc agatatctag attttaaat ctggacgacs 300
gttgtcctaa cgtgattcca taaatctaaa gaatgogac ctgogatcct gcgacctgt 360
aattctaaga ttccaagact gggagtctaa ctttgactat gcttatattc ctttgactta 420
agcttctagt caaagtctaa aaacctatgt attaagatac tgggactaaa ccaggcacgg 480

tgccggggagc	ctgtagtccc	agctactgga	ggttaaggca	ggaagatcgc	ttgagcccag	540
gagttccagg	ctgtagtgca	caatcattgt	gcctgtgagt	agccacagca	ctccagcct	599

<210> 30
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 30						
gtcgcggggc	cagttcggag	cgctgggagc	ctgctacaac	cctggcgggc	agctcggagg	60
ggccagtgc	ggcgccctacc	atgctcgcca	tgctgocgt	tatcccgggtg	ggatagatcg	120
gttcgtgtcc	gccatgtgag	ccagcgtagg	gacgaaaact	catagacaca	tcggctgttc	180
acacgttccc	cgcaatctga	gaacgaacag	gaatggagag	aggactcaac	tgggacccac	240
gtggaaaaga	ccgagcaggc	cacagaggct	oggtctcccc	gcgcacagcg	taggcacccck	300
gtgtactctg	taaacgggag	gagggtggggc	gaggcagcca	gagcccttgg	actggcacag	360
ggaccctcga	tgagagcgaag	ccctcaaacg	ggatgcttcc	tggtattcta	tcggggagggg	420
tccttggcgg	taaccagagg	gcagcgtagt	gtcaacacca	gagaccagga	tccaaattgt	480
ggggaatcag	tttcagcctt	ccatgtgctg	ccggaactcg	ggccttttta	cgcggttcgt	540
cctctagtgc	ctttaactgc	gttactacaa	taaaaggctg	cggcagcgcc	tttctctctt	599

<210> 31
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 31						
ttgtttaata	gctctagtaa	ccttgtggat	tctttgggat	tttctacata	taagatcatg	60
tcctctgtga	atagagatag	ttttacctct	tcctttccag	tttgggtgcc	ttttatttct	120
ttttcttttc	ggatagctct	ggctagaatt	tcagtagcaa	tggtggacag	cataaagcaa	180
acattcttct	cttgttcctg	ttattaggaa	gaaagctttc	agtttttcac	oactgagtat	240
gatgttaact	gtgaactttt	aaataaatac	gccttatcat	tttgagggaat	tttctctctr	300
ttcctagtgt	cctgagagtt	tttcatcatg	aaaggatgtt	ggattttgtc	aaataatgca	360
acatcccttt	ctgcattgag	atgatcatgc	agtttcttcc	cctcttcatt	gtataaaagt	420
gatggattga	ttttcttatg	ttgaaccatc	cttgcatctc	tgagataaat	ctcacttgat	480
catgttgaaa	atccttttaa	tttgctctag	gattttatct	attaatattt	tggtgagaat	540
ttttgcactc	atattcaaaa	ggaatatttg	tcgtgaattt	tcttataatg	tctatctag	599

<210> 32
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 32						
tgtgaataga	gatagtttta	cctcttccct	tcagttttgg	gtgcctttta	tttctttttc	60
ttttcggata	gctctggota	gaatttccag	tacaatgttg	gacagcataa	agcaaacatt	120
cttctcttgt	tcctgttatt	aggaagaaaag	ctttcagttt	ttcaccactg	agtatgatgt	180
taactgtgaa	cttttaaaata	aatacgcctt	atcattttga	ggaattttct	ctctgttccct	240
agtttccctga	gagtttttca	tcattgaaagg	atgtttgatt	ttgtcaaata	atgcaacaty	300
cttttctgca	ttgagatgat	catgcagttt	cttccctctt	tcattgtata	aaagtgatgg	360
attgattttc	ttatgttgaa	ccatcccttg	attccctgaga	taaatctcac	ttgatcatgt	420
tgaaaatcct	tttaattttg	tctaggattt	tatctattaa	tattttgttg	agaatttttg	480
catctatatt	caaaagggaat	atttgtctgt	aattttctta	taatgtctat	ctagcttttg	540
tatcagagaa	atattgccct	catggaatga	attaggaagt	gttccctctt	cttcaattt	599

<210> 33
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 33						
caaccctacaa	cctggactga	ggtttttttca	ttattacact	catgacttct	gttccaatat	60
gtgttttgaa	actgttttgag	tgagaggcgg	tgtttcttaa	cattctcttc	ttctgcatat	120
ccagaacaaa	taatacaaaag	ggaatctaga	aactacctaa	ccccatagcc	agatcattct	180

gacaatgcta	tagaaaaaatt	aggtaggata	tgccatatta	taaagtaggg	ccatgagttc	240
aaaaaacaaa	taacacatgg	actagctagg	gaagccacaa	taggtaacag	catgcgtttw	300
aaaggcttag	ccaatgctaa	gctccctgtg	agtcagggaat	gtcatgaggc	ttccataata	360
ataaacttca	tttgttagcag	cattaaaaaga	aatagagtgc	ccagagtggg	gaggcaatgg	420
tcatacctga	ctttgccctg	ctcaggggtgt	ctgaattgcc	catgagcttc	acactttttg	480
atgggcattg	attaactgga	ctatgtcata	gaagacaaac	ggaatggcgc	agtggctgca	540
acctgtgtcc	caggaggagg	aattagggtga	attaggcttg	tgtagcctga	agaaagcca	599

<210> 34
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 34						
tttccctctct	tagtttcatc	gtttgtctaa	tagcaaagag	cgggaaggct	ggggtgggtg	60
tgctgacttg	agaatccact	gtagatgaga	gtttccctca	cctgcccctc	cttaactaca	120
ttggagggtgt	gtcattcgct	gccattgaaa	tggtttgggt	ggactagctg	gccttgatga	180
taggggtgcgg	tgagggggac	atgcaggggt	tgaaagcaga	cacctgagat	ggaagcttgt	240
ggtacccttat	gtgatttgag	gcagggccag	ctagccgtcc	accaggatgg	gtgcatctgr	300
tgccacaggg	tgagtcatca	ctgcacaaca	attgctcagc	cagcaactcc	atttcccagg	360
ccccttttga	ctaagtcagg	tacagtacag	tgtttcctgt	tggtgacagc	tggcatttgt	420
tccgattggc	tggtgttcca	ctccgactgg	ttggtgcgtg	tgctgaacta	gccaaaaagt	480
attttttctt	tttttggttt	taaggagcaa	aaagtttaat	aggcaagaaa	gaaggaaaga	540
aaaagagacc	agctccctca	tacaaagaca	agggaggagg	acttgaaca	aagagaac	599

<210> 35
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 35						
ctgtctgaag	acgccacctc	ctctgtgagg	cctctcctga	tttctgagac	cacacaaatc	60
tctccctggg	ctgcgttttc	atggcatgct	gccttcagtc	aagggaacac	atgcaagcag	120
aaagagctca	gagctgtgtg	agaaaagaaa	gcagcatgtg	tggtctcaga	aatcagaaga	180
ggcctcacgg	aggagggtgg	atcttcagac	agagccagggt	ggacagaggg	attcaggctg	240
aaggagtagc	acagagatca	gcaaggagaa	tggtctagtg	cgtggcacac	atagtactgr	300
tgggaaagggt	gtggcctggc	aggcagggtc	acatcatgga	gatctatgag	tggtctgtta	360
gggtctggaa	gtttctcctc	agggcatgag	gaaccatgga	agagattttg	ttttttcagt	420
gtgtatgcat	agggtggatgt	gttttagtaa	actttttatt	gaaatgtaac	atatgtatag	480
aaaagtacaa	aatttttcc	aaactgaccg	catctacgta	atagcactca	gattaaaaca	540
ataacaaatt	attactaaaa	ctccagagat	ccactctggc	ctctttcagg	aactactta	599

<210> 36
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 36						
aggtagaaat	gaacttaaga	gggagatgga	ggaaggtttc	tgtatggggg	ggctggctgg	60
atgagggact	tcagatttga	agccaggaga	aaacatccca	attttataac	atcatgtttg	120
aaatgtagga	caatgagatg	aagatgtcca	ataaactggt	agctatatga	gtctgttgct	180
tagggatgag	gtcaaggctg	tagacagagt	taggagttat	cacagagatg	gggggttgagg	240
ctgggggggtg	gctgagattt	ctcagggtgg	tgtgtgcaat	gaaagagaca	agggctgaar	300
accagacgcc	tggcttaggg	gatgagcggg	ggaagaacaa	gagacaacat	cgcttccctc	360
tgaaatgctg	gcacgggctg	cgaagcatga	gtcagaccct	tctagcccca	gcagcagcct	420
caacagcctg	ggtctatctc	accagccaca	cagttttctc	ctgaatgaac	ttgcatcact	480
aaactcagaa	gctgtgttgc	gaaatccgca	tcagattggg	tacctctggg	ggcgtccrag	540
ggacaatggg	cactaaagac	tcatagcatc	ctgggggttg	agtctctctc	tccgcctcc	599

<210> 37
 <211> 599
 <212> DNA
 <213> Homo sapiens

```

<400> 37
taggagttat cacagagatg ggggttgagg ctgggggggtg gctgagattt ctcaggtggt 60
tgtgtgcaat gaaagagaca agggctgaag accagacgcc tggcttaggg gatgagcgga 120
ggaagaacaa gagacaacat cgcttcocctc tgaaatgctg gcacgggctg cgaagcatga 180
gtcagaccct tctagcccca gcagcagcct caacagcctg ggtctatctc accagccaca 240
cagttttctc ctgaatgaac ttgcatcact aacctcagaa gctgtgttgc gaaatccgcm 300
tcagattgcg tacctctggt ggcgtcctag ggacaatggg cactaaagac tcatagcatc 360
ctggggtttg agtcctcctc tccgcctcca caacatccct gccaatcagt tctcgagcac 420
cccaggcagg gaactcataa cttcccaagg catcccatct ccttggtgag caagtgaaga 480
tctaagaaaa ccttttcttg caatctcagc atactgaaaa gtcaaagaaa aagataacgc 540
tataatttaa tggtaatgat ccaggacaga gtgaaatgca aggactctgc atcctggaa 599

```

```

<210> 38
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 38
acacaccata tgctaaaact aactcaaaat ggaataaaga ccttaatggt tatagacaat 60
gttataaaac ttataaaaga aaacacagat gtatatcttt gtgatgttgg attactcaac 120
agtctcttag atataatacc aaaaacaaaag cacagtaaca aaagaaaaaa cagataactg 180
gactttatca aaactaaaaa ctttgcctgt gaaaggacac tgtcaagaaa gtagaaagac 240
aaagaatgag aggaaatatg tgcaaatcat gtatctgata aagggtctaat agccagaatr 300
tcatatcttt taaactctca caactcaaca ataaaaaaat ttgaaaatta gtaaagtact 360
tcaatagaca tttgtccaaa gaagatatat aaatggccaa taagaaatga aaagatgttc 420
attattagtc tttaggaaaac tagaagtcaa aaccacaatg agaatttgga atctttgtgc 480
attgctgtag taatgtaaaa tggtagagcc actgtggaaa acagtttggc aatttctcaa 540
aaagctcaac ataaaactag caaatgaccc agcaattcta ttcttaggta tacacccaa 599

```

```

<210> 39
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 39
ggggccccc c tgggccgggt tgggtccctg gccattcact gggagatcca gggcctgtcc 60
ttgtccccc c gcagggcctc agtgttctac tctgttaaat agcagctgga gggcgtgtgc 120
tgatctccga ggcccttget acgtatagga ttccgggcct tggcgccgggt tccagtggct 180
ccagcccgga cgcagcttct cgggggtggg ggggggggcg ggcgggggct gtgggtgcag 240
agccgcgcgg atggtggtgc cagggtgagt tgggagatcc caagacgaga gttctggccr 300
gtaacgggtg gcatgccttc cagggtttta gtgcgcttct tctggtgggt gagctgaggg 360
caggctaagc ccggccaagc gtrgggcagc tgcttccgga agagcgaggc aaagcccaga 420
tccttgctcc gtgcacccgg tgtgtggaaa cgtcacaagc gtttgcctga caacctctct 480
cggcagaggg ttggtcgaac gaaggagag gggctttaca ctgcgtaaac aaaactcctg 540
gtttccttct tcccaagtaa tggagaagca aaaaaccag atttcgtcct gtttcgttt 599

```

```

<210> 40
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 40
gccggggcgc acctccccag gtaggagcag ctgtggcgge gcggtaggag cccacagcg 60
tcaggggcgg gagggcgctt ggagatcccc cgggtcggcc ccctccgcac cccgatcgac 120
tgaggcccg agagttcagg aaccggctcg ggagacctca gcgccgaac tcggagtttt 180
cggacttttc aggcctctgc caaggccttg gactcgcagg tgaaaggacg ggctcatctc 240
acttttttgt cctgagaggg tgagaattgg ccgagagggc gcttggtttt tgtgggaatr 300
gggaggggag agttccagga gactggtctc ccgggccttt caggatggtt tccaaacccc 360
aatcgtggct gccacagcca ctcggcactc cagtccccc atctttcgaa tgagtattcc 420
tagggccgaa aggggaaggtg aottgccatg gcccactgc ggttctctcg cttagcggag 480
tctccaacct gcgtctcctt taggactgcg ctccccaaact gtgtggtaga ggtagccgct 540
ttcccttttt gggccccagg tccctcgact gtaccgggggt ctggatctct caagagtc 599

```

<210> 41
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 41
 ccggtgggat agatcgggtc gtgtccggca tgtgagcoag cgtagggacg aaaactcata 60
 gacacatcgg ctgttcacac gtcccccga atctgagaac gaacaggaat ggagagagga 120
 ctcaactggg acccagctgg aaaagaccga gcaggccaca gaggtctcgt ctcccgcgc 180
 acagcgtagg cccccggtgt actctgtaaa cgggaggagg tggggcgagg cagccagagc 240
 ccttggactg gcacagggac cctcgatgga gcgaagccct caaacgggat gctttctggy 300
 attctatcgg ggagggtcct tggcggtaac cagagggcag cgtagtgtca acaccagaga 360
 ccaggatoca aattgtgggg aatcagtttc agccttccat gtgotgccgg aactcgggcc 420
 tttttacgcg gtctgtcctc tagtgccctt aactgcgtta ctacaataaa aggctgcggc 480
 agcgcctttc ttcttaaagt gaggaggaca aatttgcaaa agaaataggc ttttcttctt 540
 ttttaaatgt gagaaatctc tgcctctggtt gacctgggct ggttttccct gtctctgag 599

<210> 42
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 42
 ttctttccat agctgggccc ctgctttgct taaaagagtc ttgtagggca aagcccgagt 60
 ggtcagagag ctactggaac accaacccca caaggcagct aactgacagc ctttcctaag 120
 ccttgtcaac tocacctcct ggccatttca gaagcaatct ttctctcct tcctttcact 180
 tctttccatc ctgcgaaccc ttacacacat ccagggettc accactgtgt tagtcctctg 240
 acccagagct ctgttccagc agtatgtttg gtcccaccac ctatggacag tttggcctcr 300
 ccagggtctca gggaaggcag ggagcgctac acaccagcca ccoaagggtga ggccccctac 360
 acagacctga gcagctgttc ctcatctttt catattcctg aattacattt aaaccacaa 420
 caggagggca agctcagctc tcctggccag cccagggtt ccctagagtc ctacccctagt 480
 ggctgataga catgatgacc atgcggtatg cttcaggact gacaaaaaca cccctgaacc 540
 tatagaagct gggaccctgc tcagtgtctga atctttcccc gacctcctg ccaaaagt 599

<210> 43
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 43
 cgccagggtc cagggaaggc agggagcgct acacaccagc caccgaaggc gagggccctt 60
 acacagacct gacagctgtt tctcatctt ttcatattcc tgaattacat ttaaacccac 120
 aacaggaggc caagctcagc tctcctggcc agccccaggc ttccctagag tctacccta 180
 gtggctgata gacatgatga ccatgcggtt ggcttcagga ctgacaaaaa caccctgaa 240
 cctatagaag ctgggacctt gctcagtgct gaatctttcc ccgacctcc tgccaaaagy 300
 tgggtctacat ctgcccaggc aaaggccagg gctacatgca catgcaagac cctaagtttc 360
 caggacacca gggagaaagg ttgctcctgt gagacctca gacctcagcc cagttagggc 420
 aagtttagcca aactctccct caaagcttct tatttctaga cccaggata atccctgggt 480
 cccagctacc tgaacctagg gtagaagatg gtgctccgag tctgaatctc cctcatgcc 540
 tgcctatcac ctgcaagacc cctgcttctg ggctgctttg cagttgcca cctgtctag 599

<210> 44
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 44
 tggcgcttac ggcoaccttg gcctcggggg caggggcatgg gcggcccccg ccagatcgcc 60
 cagcgccagt actaactgcc ctogototgg ccttcagagg cgaagcctct tetgcygca 120
 caacctaggc agtaatccta aactagcggg caccacagac cagctgcagc caccocaaac 180
 cagggatcac ttccggaccc ctgcacccgc cggcaccago gcgcaaggga cccttcagcc 240
 ggagaccaga gtccagtcoc ggtcacggag ccaccggccg tgcgcgcctc gagaagcacm 300

acgcgggctg	agccgtcggc	tagcgggtca	ctcccagacc	tctgtctgca	cgcgcgccagc	360
cccagaccac	ggacgctgag	cctccagcgc	gtgccagcct	gggcgcgtgg	gctctcgggg	420
ccagcccgcg	acgatacccc	gagctctccg	cagaaggggc	gagcgtccgt	tccggggagc	480
ccaggcccgc	ccccgcccc	cgacagccgc	ggggatccag	agcccggggg	tgcgggacgc	540
ccgcgccatg	actgccgaga	gcgggcccgc	gccgcgcgag	ccggagggtgc	tggctaccg	599

<210> 45
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 45						
ctgggaccct	gctcagtgtc	gaatctttcc	ccgaccctcc	tgccaaaagt	tgggctacat	60
ctgccagggc	aaaggccagg	gctacatgca	catgcaagac	cctaagtttc	caggcacacca	120
gggagaaaag	ttgctcctgt	gagaccctca	gaccccagcc	cagtaggggc	aagttagcca	180
aactctccct	caaagcttct	tatttctaga	ccccaggata	atccctgggt	ccccagtaac	240
tgaacctagg	gtagaagatg	gtgctccgag	tctgaatctc	ccctcatgcc	tgcttatcay	300
ctgcaagacc	cctgcttctg	ggctgctttg	cagttgccc	cctgtctaga	tggcctacct	360
ttccattacc	atgccttcca	gatccagtgc	tctgccagtt	atcctggata	tgctcccaat	420
gccaggttag	tgacaggcct	gagagtagcc	cctgggtctc	ctgatacatt	agtgtattta	480
atatgtgcaa	agtggttaca	acagtgtgtg	ttcatggaag	agttatgtat	gtctgagtta	540
atattactaa	ctttcacaca	tctcttacct	tactatttat	ccccattgta	tagatcgac	599

<210> 46
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 46						
gaggctcgta	tgggcaactg	gaaccgggct	ggagtgtgca	gctggccccc	tcacttccag	60
cccgcaggct	gcccgcgggg	tgactcccg	gagatgcgc	tagagaggca	ggacacctgc	120
acgcataatc	gtaacagagg	cagaaatact	gacggcgaaa	cctagagaga	cttgcaactcc	180
aggcccgggg	gggtgggggg	cgggggagaa	gocctaggga	gagtggggag	gaggccagag	240
gagagctggc	tgctctctcg	tggttgaggt	caagtgtctt	ccagctcccc	gcgcccccts	300
ctcaccgctg	caccgcccac	ctcatgcttr	gggogccaag	cagccaagca	accgggttgc	360
gttgttaggg	gaggcaatca	gcocctgttac	ccctccctcag	gcggcgggag	tgagctgcgg	420
gatgggatcc	ctacagagac	tggcctgggt	aaggggaaaa	aatcaactgc	tcttcctgtg	480
cctctagtgg	ttgaactaga	atcctggcta	gctcatctcg	cttttgaagg	gggaagggga	540
gtaatcatcg	gctcttttga	gattgtcttg	caaaccatgg	actctctccc	cagaaatga	599

<210> 47
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 47						
catattacct	tcattaagat	gataatcaaa	tgcagtctcc	attgggggag	gcagaggttc	60
tagtccagct	tggacacttg	taactgtcat	atcttgggca	agtcacacac	cccttctatg	120
gctctatgga	ggctccacac	acactcacaa	tattcctatt	tatttctatt	gggaacttat	180
acaagcaatg	agatgaaaat	cctgggtctc	cccatgtgg	gcaatgtgat	cctgggaaca	240
tgtcttccca	atctggggcc	cttccccatc	cttoatggta	catgccctcg	tctgaactgy	300
tttctatcag	ggacatatte	ccccagctat	cttgtcatgt	ctaaccctcag	gaacaggctg	360
agcacacaca	gaaagtcaag	ctcgtatgtg	ttcaaggcag	gggagggttc	cttagggcac	420
tgaggaggac	cttaggcttt	tactagagga	tcctttggcc	cagactgact	tggagacagg	480
gaccccttcc	agttggccat	tgtgtcctga	acagaaagct	taatttttct	cctaaacctt	540
caactacctc	agacttgggg	ctagagctga	ggggtcagag	gcagggttta	ttctataact	599

<210> 48
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 48

acatgggtctg	gctgggcttt	gagctgggtc	acacattggc	tgctgtaggg	aaaactgcca	60
agggagcagg	ggaggaagca	gggggtcctg	ttaggggtctg	gcactgtgat	ccgggagaga	120
tgacaggggtc	ctggagggtct	gggggtctgtg	gaagcgtggc	atgggggttag	gtgggttctg	180
gagaggggaat	ggtcaggggca	aattcatgat	gacaggaaca	catggggagt	tcagggaaca	240
gcaaattggtg	tgttggctgc	agcctagggg	tgtgggaagg	cagctatggg	agacgtggcy	300
ggcaagaagg	ttgacataag	gatgaccgag	ggctocaaagt	gccaggtgag	gcactgaagc	360
gttctactgc	agacggcagg	cagccttctc	cacaggactg	gagctcagct	tcaggagggc	420
aagctggcag	cacggacaga	atggaggcag	gagtactctt	gggaggccct	ggctggctgc	480
tggggccgtg	agcagagggtg	ggagttaggt	cctgggaggt	gggtggctctc	aattttattgc	540
ctggttgcag	agcacctcca	tgcttgagaa	acctgactg	gggtctctgcc	ctgaccacc	599

<210> 49
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 49						
ttccctttga	gactttctctt	ggcttcttat	aaataaatgt	gcagctaaca	gactatctag	60
ccctacccct	tgttttatgg	aagagaagcc	agagaaagta	actttccaag	gtaacagtga	120
gttatcattg	tagaccctag	ttcaggggccc	ttccacagct	ccaggggctc	agcagggaaca	180
aaactaataa	taatcccaac	attttccaaa	agccactttg	ttcaggggagt	accagccatt	240
ttcacagggtg	ttatctcttt	ggatcctcac	agctccctctg	ggaagcagaa	ggtttcaaay	300
gcaaccccttt	caggcaaggga	aactaagggtc	caagaaaagg	ggtaatgagc	tcaagtcattg	360
tgacogttgc	acacaggagg	gaocaacct	caaccgggtg	gtaacaaatc	ctcagtaaaa	420
tgaaccagaa	atctgagggt	octtctctcc	tggatgtagg	aatcaggagg	ctggggagaat	480
cacctgttag	tgttgactgg	cgcttgggaa	tcctctggct	tcgagcctct	gagtaggggtg	540
gattctccat	atgccctctg	cttatctcca	taaggcatgt	aaggcttaaa	gatagtgtc	599

<210> 50
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 50						
aggcaccatt	tctgccacct	cgaggagggtt	taocttctgc	cctccatgat	gtgacctgtg	60
ctagcaggcc	ccctcctgcc	caoctggggc	atgtgtgcca	tctaccagcc	cactccacat	120
tctctgcgca	ggctctctgtg	ctcttctctc	agcctgggaat	tcttctgtcc	acotggctct	180
gtctgaagac	gccaacctct	ctgtgaggcc	tctcctgatt	tctgagacca	cacaaatctc	240
tccctgggct	gcgttttcat	ggcatgctgc	cttcagrtcaa	gggaacacat	gcaagcagar	300
agagctcaga	gctgtgtgag	aaagaaaagc	agcatgtgtg	gtctcagaaa	tcagaagagg	360
cctcaoggag	gaggtggcat	cttcagacag	agccagggtg	acagagggat	tcaggctgaa	420
ggagtagcac	agagatcagc	aaggagaatg	gtctagtgcg	tggcacacat	agtactgatg	480
ggaaggggtg	ggcctggcag	gcagggtcac	atcatggaga	tctatgagtg	ttctgttagg	540
gtctggaagt	ttctcctcag	ggcatgagga	accttgggaag	agattttgtt	ttttcagtg	599

<210> 51
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 51						
tccagagatc	cactctggcc	tctttcagga	actacttaca	tacaagaaaa	ataaccatcc	60
taacatcata	aactagtttt	cactattttc	ttgtgtgtgg	ctttttttcac	tcacatatg	120
tttgcaagac	tcccccatgt	tgttagacat	aaatgcactt	tgttcttggc	cattgtctgt	180
tgatatccca	ttgtatggat	gcactgcaat	tgttgatgag	ctttgtgcag	tttccagttt	240
ggggctgtaa	accttctctg	acatgccttt	acgtgtctct	ctgggggtaa	atctgttgcr	300
tgcatatcta	ggagtggaa	tgctgggttg	tgggtctatg	atatatctac	ttgagtagat	360
acttctagt	tcccaaaagt	gttctaccca	tgtacacgcc	caccagggat	gcacaggagt	420
tctcattgct	ctatatctct	gtcaacactt	ggatttgtca	gtctttttgt	gttttatgct	480
tgtttttttt	tttttagggg	aatgaccacc	tgggtggagg	ggagtcccac	ttgggttgaa	540
gtatactcac	tctggcaggga	atgaaatcag	tggtaataga	gctagaatga	aaaaggcca	599

<210> 52

<211> 599
 <212> DNA
 <213> Homo sapiens

<400> 52
 gctcctgacc tcaagtggctc tgactgcctc ggactcccaa agtgctgcga ttacaggcgt 60
 gagtcactac gtggggccat cctctaatac tcttttcttg atttttgoot ttcccaaacc 120
 cagggttcat attcaaaaca acaaaattgt taagatgttt tcatatctaa acaacatttg 180
 ggtgttctaa agtaaccacc aggtaacaca atgggttgct cctatactac ctatgaaagg 240
 aatgacgaaa ggaataatta ggtttgtata gaatatgtg cattatagtc ataatgctr 300
 tgagaactcc caaatcaggg tgggtgtgcag gttagggcag agttttggga gaggcgaact 360
 gttctgtaca aaaaggagaa gaatcataat gctgagggga ggggaggagac ctgggagagg 420
 ggagtgcgca gcaagcaggg tggggcacca cctgaatgaa ggacagaagg tgagagocct 480
 taggggcaca gcagcacaaa agactttggg agaaaaggaa ttaataagag ggaattttta 540
 agttgtttgt catggtgtgt gctatgggac tcttccctc ttgtcactct tacactgtc 599

<210> 53
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 53
 caccactag atggcgctgt gaggtgcagt ggaagagta gctggaggca aacctttgag 60
 attcagattt tggacaaata ttttaacttc tggaggctca gattcctcct tgagatacac 120
 ttggcctgtg tccccacaa cacagggtatg tagatcatac gggataacgt gtaagaaagc 180
 actttcaagt ataacacgtg gtgacatact tgagcctgtg gactgttgtc actgaccact 240
 ccacctgtg taccagaggc tggggctgtc agagtctagt gtccaggac ctccccags 300
 cttctctatg atcccttcac tctaccttc accaggtgtg accaagtccc ctgggttccc 360
 agctaggaga gattgccaga aaggagctca tgttgatact gtacttgott gctctttgga 420
 aaagcacgta ttgattaatc tcttcacott tgetgtaccc cttttcctag catggcctgt 480
 gtgactccag ggccctagtg ctgctgaggt tggcatggga ggggaatccc ataggaaggg 540
 aatgtgaaag aaagccccag catgaggaat aagggaagtt ccacaatgcc catggtgtg 599

<210> 54
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 54
 gaggcaaac tttgagattc agattttgga caaatattta acttcctgga ggctcagatt 60
 cctccttgag atacacttgg cctgtatccc ccacaacaca ggtatgtaga tcatacggga 120
 taacgtgtaa gaaagcact tcaagtataa cacgtgggtga catacttgag cctgtggact 180
 gttgtcactg accactccac cctgtgtacc agaggctggg gctgtcagag tctagtgtcc 240
 caggaccttc ccaggcttc tctatgatcc cttaactcct accttacca ogtgtgaocr 300
 agtcccctgg tttccagct aggagagatt gccagaaagg agctcatgtt gatactgtac 360
 ttgcttgctc tttggaaaag cacgtattga ttaatctctt cacctttgct gtaccccttt 420
 tctagcatg gcctgtgtga ctocagggcc ctagtgcctg tgagggttggc atgggagggg 480
 aatcccatag gaagggaatg tgaaagaaag cccagcatg aggaataagg gaagttccac 540
 aatgcccatg gtgtgggaga atgcaactcc caccaggcct gctgggcctt ctatctatc 599

<210> 55
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 55
 gctgacatgc aaaacaacac aggtcccaa cccttggtgaa atactgaaga caagtcagtc 60
 tggacagtcc tcagcagctc ccagatccca aaacctggca gaaccatttg caacaggaat 120
 ggagccagct tttctggggc ctgccctctg cacagcgagt tcctggaggc tacagtcctg 180
 gtgtctggta gttgatcccc agtagatttt ccatttgtct taactactgc tctcctaagg 240
 gcctccagcc taatttaggc caaagaatct gcattgcac ccccgccccg tcccaatccm 300
 agccccacct caggcccaac ttcaatcctc tcccccatc taactctcac ccagattag 360
 ggctgtgtgg gtatctttcc ctagagocca gaaagacgta cagtctctca tcccaaggga 420

aattcaatga	ctgaattggc	actgattgca	aaagcaacta	gaatatttgt	ggcattttact	480
tttttttggg	ccaaagatct	caggaaaacct	tgaatccttc	agctgtcaac	attcctcagg	540
atagcgtggc	ctctcagacc	agagcaccaca	tctccatcct	tgctggagaa	tgtoccgtc	599

<210> 56
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 56						
tctttttcat	tcttgatgtt	agtaatctgt	cttctctctt	tttttctctg	gccaatctgg	60
ctagaagttt	atcagtttta	ttaatccttt	taaataacca	gcttttcaat	tcactaatat	120
tcctctgttg	ttccgttttc	aatttcattg	agttctgcta	caataaaaaca	tttaatttct	180
gttttgtaat	gtttctctgg	atgctttcaa	aatacttttc	atttctcttc	atttccagta	240
gattaataat	aatgtgtctg	gacattgttt	tctttgaatt	tatcatattt	cagatttgtk	300
gagtttcttc	tttttctttt	ttcttgagac	agggccttgc	tctttcaacc	aggctgtagt	360
gcagtgggtg	aatcaagggt	cactgcagtc	tcaacctccc	aggctcaagt	aatcctttca	420
cctcagcctc	ccaagtagct	gagacatgcc	accaggcctg	gctaaacttt	tttttttttt	480
ttttaagaca	ccaggatctc	cctatgttgg	ccagactcgt	ctcaaaactc	tggggtcaag	540
tgatccacca	cccttggtct	ccaaagtgtc	gggactacag	gcgtgtgcct	ggccttgcct	599

<210> 57
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 57						
gctgttaggc	tacaaacctg	tatagcatgt	tactgtactg	aatgctgcat	gcaattgtaa	60
cacagtggca	tttgtgtacc	taaatatatc	taaacagaga	aaagaaacag	taaaactatg	120
atatcatgat	ctcgagggac	cactgttgta	tatgcagccc	atttttgacc	aaaacattgt	180
tatatgggtac	atgactgtat	tatgctgtaa	gatgctggat	cctattaaag	tcctctgggg	240
aacactgatt	ttttttttta	acctaacaa	tctttccagt	taggtttaga	ccacaaattw	300
tgactcacct	tctgtggaca	gaggtrccaa	agtcagttca	gttttcaaag	ccatcccctg	360
tctcagcctc	ccattttaaca	ccacttgctt	tcccttggcc	cattagtttt	aagcattatt	420
tatgtcatct	tactatattt	ttgaaggcat	tttcatatgt	gacottgtat	cttggcaaa	480
atcagatatt	aggcaaaaga	ctaagaaata	caaactctca	gctocagtat	gatgaggagg	540
tccttgccct	gagggtccctg	agcgccctgg	ataacctgcc	tataccctct	tggactcag	599

<210> 58
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 58						
gatacctgct	tggttctgtc	agttctctcg	tatctcaact	cctcccctaa	tcccagcaga	60
gcctaaaact	ccaagtctgt	tgacaacctc	actgcacccc	tagcccaggc	tctgctccat	120
cacctgccaa	catcccagcc	tggcctttct	cctaggtctg	cccacctctg	catcagtaca	180
gccaccttat	ccagaggggc	acagocaaat	ttggactcca	agcctctcct	ttactgttga	240
ctcaagtgac	tgagctcaga	cttcccattc	tgacagcggc	aaggctccagt	ggtagggaag	300
gcaattccta	ccactcatag	cctagctcac	tacatgcaag	tagacagtga	accagtgggt	360
ggagctgatg	agtgagtgat	ctgcaggcag	agactccaga	ttggatgaac	cacacagttt	420
tggcaagcat	tgggtcaagg	agctctctgg	tggctcagcc	ctgccagcaa	catcatccac	480
atggggcgtc	gtcttctgcc	tggaggcaca	gcgccttata	cataaacctg	tctctggaag	540
aacagaaaaa	gtcagtgcac	cctcaggggc	aaagctgcoc	aggottagcc	agtttgcct	599

<210> 59
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 59						
tcatacattg	aatttttaggg	accccctaga	tcocccctgaa	gtctgottat	ctagccagggt	60
aagcoagaac	agagtggtag	aaaaaggcta	tcaatgaaga	gaaaacacaa	aaaaatatta	120

cctagggttta	taggtcattg	aagagttcag	aagacacttt	cccaagcatt	atcctggcaa	180
caactctgta	aggtcacaga	gctagaggya	gggtgcagtg	acttgccctga	ggtcacgagc	240
tagcccatgg	cagggcagaa	agcgcttgaa	gtttctgagg	ccaagcccag	tgctcttogy	300
atctcccatc	ttgcttccca	ggaggttcca	tgacagatcc	gtgggaatgg	gcgtttctgc	360
ccttattccc	ctgtgcattc	ttcacgagtg	gttggaattc	catggacttc	attctgccaa	420
agactcatgt	gctgaatcat	atgggaactgc	tgacottcca	ataaaccagc	atgatttgct	480
aaggcgtaga	gccaggctga	gaagggaagag	gactcaggcc	agactgggtg	gttggaatcc	540
tagctgtgca	gccgagcagc	ttgagcacgt	tactcaacct	ccacccaatg	tacgaaaag	599

<210> 60
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 60	
agcttgaact	cctgggtgttt
gggctcccc	tacaggcacc
cctagtagag	aattgtttct
tttgcttggt	gacacaatcc
ggaccaagaa	tcaagcaacc
caaatgtgat	tttgatacaa
gacagtcata	attatggcac
gattagtgtg	tatttgtgtg
acttcaattc	cggacataaa
ggaactttta	tcattttattt
tccctccaagc	cagtgaatg
aaaaagcaaa	ggctaaaaat
tctcttgaaa	aagtcttctaa
cttttccaaa	actctggcca
tcttctctct	gatgtactca
ataggacaca	aaaacgaacct
tttttgagttt	tcttgtagct
tggtgtgtaca	tgctgtgtgtg
atcaatgaca	gttttataaac
atcttctgct	acaaatcagg
ggctaaaaat	taaggtgggt
ggcatttaacg	
aaaccacaac	
aaaatctaaa	
aataaaggam	
cactattttt	
tcattttttag	
caccaaaca	
aagggttgag	
tctctgggt	

<210> 61
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 61	
aaaatctgct	atcaagggct
tggtgtgccat	ttacgcctag
tcctgaaacc	acaactttgc
tccttaaaaa	ataaaggacc
cacttaataa	aggaccaa
tgtaacacta	tttttgacag
ccatctcatt	tttaggatta
gcacgcacca	aaacaacttc
gatggaaggt	ttgagggaa
ttaatctctc	gggttcgtgg
ccccctacag	gcacaaaaaa
tagagaattg	tttctctctc
ttggtgacac	aatccctttt
aagaatcaag	caacctcttc
gtgattttga	tcacaaatag
tcataattat	ggcacttttg
gtgtgtattt	gtgtgtgtgt
aattccggac	ataaaatcaa
ttttatcatt	tattttatttt
aatgagcttg	gatggttgcc
gcacaaaaaa	gcaaaggcta
tgaaaaagtt	tctaaggcag
ccaaaactct	ggccaaagag
ctcttgatgt	acacaaaacg
acacaaaacg	accctagagy
agttttcttg	tagctcattt
gtacatgctg	gtgtgtacat
tgacagtttt	aaaaccactt
gtgctacaaa	tcagggtatat
tgctctcaaa	ggctaaaaaa

<210> 62
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 62	
atcccagcta	ctcaggaggc
cagtgcagcc	agatcacgcc
aaaacaaaaa	caaaaaacaa
cttttctgat	acaaagacat
taaatatata	tacatatata
aagtttaaat	tcaaaaaacta
ttgatttgga	atcaaataga
attactgaat	agatccccto
atcaagtgca	ccaagaacag
ctttaatatc	aaagatcaa
tgaggoagga	gaattgctcg
actgcactcc	agcctgggcg
aaaacagtaa	caattttctt
ctcagagagt	ctctattttta
tatgtgtgtg	tgactatgtc
tctctaottg	ttttttattt
aaggtcaggc	ttttocagac
aactagaaa	tctctgctgg
aaattatoga	gacagcatca
gtgattttct	tgtattttat
aacotgggag	gcagagattg
aaagagcaag	actccatctc
gaacttctga	gggtgatttc
gaatcagtat	
tgaaacacak	
tgatataggt	
accaatatga	
gtctaatttt	
ccttttgatt	
atctctttg	

<210> 63
 <211> 599
 <212> DNA

<213> Homo sapiens

<400> 63

tatgtttttat	acataccata	ttaaaaataa	aatacattaa	aaatcctaca	aacataggaa	60
gtttttgctgt	ttcttagggg	cacagatgtg	agagagtccc	aaagcaaagg	gatgttactg	120
gtaactgcgg	gtctgtgata	ctagctttct	ggcgcagcct	ctctcgccctg	tagctgggtgt	180
tctgggtgtg	tgtgggttta	gttctctttc	ttgtggcttt	ctgaggatgc	tgggactgtc	240
atgcatttcc	ttgtctctgt	tctgagaaga	aaatgacaag	gaattaaagt	ctacattgar	300
tatagaaaag	tgacattttg	gatatcagaa	aagtgcacatc	ttggctgaca	gaaaatgaaa	360
gcrcacctgt	cttagggagac	taaggaaaaa	tactaccatg	atttttctgt	ccagtaaaac	420
aaaaatttgg	gggtgtacaa	gttaaacccta	atgataataa	acccctcttg	acgggtgacag	480
tctccgtaat	gatcaaatag	ttttccaaac	cctgtccatg	tcaagtgatc	tttaagggaac	540
caaccagatt	ccatattgaa	gtttgttgta	attaaattca	acctgcacga	tagtgctca	599

<210> 64

<211> 599

<212> DNA

<213> Homo sapiens

<400> 64

tgttttgtat	atgcttaaaa	ttccaatttt	ttaaattaaa	catatatatc	aaatatacat	60
gttatccctt	actcatttat	agacttcata	taatccta	cagaatccca	acagaagaca	120
aaataaatgt	aacatatatg	ctaatagaat	actaagcaac	attttacatg	atgctcttaa	180
aaaatattta	actacataga	aagtcattta	tacatattat	taaagcaa	tatgaaggat	240
tatgtgtaga	aaacttccat	ttatataaaa	aataggccaa	ctgaggacca	gagctcagay	300
aaggagtttt	tgacagaagg	taagtatcag	agaggatgt	ccaagtgagt	gcttcttaac	360
attcactatg	ctttggaatc	atctgggggg	actttttttt	tttttttttt	tttttgaggc	420
tgagtctcgc	tctgtcatca	ggctgatgta	cactggcaca	atctcagctc	actgcaacct	480
ccacctccc	ggctccagtt	caagcaattc	tcctgcctca	gcctcccag	tagctggagg	540
cgtgcaccac	catgcccac	taatttttgt	attttttagta	gagacggggt	ttcactatg	599

<210> 65

<211> 599

<212> DNA

<213> Homo sapiens

<400> 65

gagccaatgt	accagacctc	atctgggagg	actttcaaaa	tatacagatc	accaggccct	60
acaccaaaat	attctatttc	aattggcctg	aaatggagcc	caggcatcca	tagattttta	120
aaactcttca	ggtgatattc	atgtatttcc	aggtgatatt	aatgtgcagg	actgagaaac	180
aattatctag	atttacaaa	agaagcatag	aaagatgggt	ggagaataga	aatgtgatag	240
agatgtaata	gatatatgat	tgatggacag	atgaaagatt	tttaataggt	agatagatay	300
gtagggtgaca	catggataga	tgatagattt	ttgaaacatg	atggatgaga	cagaaatatg	360
gatagataga	tagataaatg	gtaattaa	agataaacag	tagacctgaa	gatctgaagg	420
aaggggaagag	aaaaaagagg	aaaaagggat	gggaaaagaa	ggaatggaat	ttggaatgac	480
aggtcagaaa	tggccacaaa	ctcagaccct	caatggacaa	aagaaaatga	aacaaaaatg	540
aattttggaaa	aataaaaagg	gaatagggtac	agctaattgca	atgaaatgta	aaagttgtc	599

<210> 66

<211> 599

<212> DNA

<213> Homo sapiens

<400> 66

ctgggactat	aagtgtgcaa	cactgcactt	acctagtttt	ttaaattttt	tgcagagata	60
ggggtcttgc	tatgttgaga	aggctggctc	ccaacttctg	gctcgaagca	atcctctcac	120
cttggccttc	caaagtgtctg	gggttataga	atcacacttc	ttgaccattc	tcaaaaacca	180
ccgccaccct	caaagaagg	ggccaaatct	acacagatag	aactttacct	gtccctcgct	240
caggactctg	aaagagcatt	ctctgccccag	agccatgagc	aaactgaaag	cagaattgcr	300
ccccatttgt	ctaccocaag	tgatcatcac	agaaaocaac	acttagtagg	gactcaataa	360
atgctattga	atgaaagaaa	acataaatct	gaatgaaaag	ttagccacaa	gacatgtcac	420
atgctgtgac	gaaaagaggt	gggaatcaaa	agaactgggt	ctggctctac	taataatgca	480
ttatgggcac	tcactggccc	tctctggatc	tcagggatcc	catttaattga	actgagagag	540

gtggagtagg tattcttttg cagtcattt cagctctgat tttgtgtgag gctgtaggg 599

<210> 67
<211> 599
<212> DNA
<213> Homo sapiens

<400> 67
tgaggccagg ggctagagac cagcctgggt aacatagtgg gaccctatct ctacaaaaat 60
aaaagaaata aaaattttaa caaaatttag caggcatggg ggttcattgc tgtaatacca 120
gctacttagg aggccaaagt ggaaggatcg cttgagccca ggccctcaag gctgcagtct 180
tctatgatcg tccattgca ctccagcctg ggcaacagag cgagactctc tctctcaaaa 240
aaaaaaaaaa aaaaagccca caaacagttg aaggatcagg aagagggtat gctgaggcck 300
agatggagtc actggtgagt tccaccaaat gttaaatgaa taacaccgat acttcataaa 360
ttattccaat aagatagaag aggaaggat acttcacatc tcaatccgtg aagccaactat 420
taccctgatg ccaacaaga cgaagatata atgagaaaag catagaccaa tatattttat 480
gaatatagat gtaaaatctt caagaaaatg ctagcaaaact gaattcaaca acatatgaaa 540
aggattatac accatgcca agcgggtattt atctcagaat gtaagggttg tgcagcata 599

<210> 68
<211> 599
<212> DNA
<213> Homo sapiens

<400> 68
ataaatagta tactttaaaa tagtgaattt ttttttatgc aaaatatatc tcaataaagc 60
tggatttttt taaaagggtca ttatagcaaa ccaggcaaga gattgttgta gctaaacca 120
ggataatggc aatgaaaatg aacagaaata aacaaaactg aagaattctg gggaagtagg 180
aaagatagaa cttcagaatt gattggctat ggaggagaga tgagagtgat atgttccaga 240
taaattaaga agctaaataa tttaaaatca tggaaacaaa acatttgtag gaaatatgcr 300
tataaaaagt ttagaaggaa aaatacaaaa atggtaataa tagctatgtt atagtaagag 360
aaattaaata acttttttaa atctcatttt ccagaatttc tataatgtga ctgactatat 420
tgcttttgtg tttaaaaata gtttttggcc aggcgcggtg gctcacgcct gtaatcccaa 480
cactttggga ggctgagatg ggtggatcac ctgaggtcag gtgttcaaga acagcctggc 540
caacacggtg aaactccgtc tctactaaaa atacaaaaat tagctcgggtg tgggtggcac 599

<210> 69
<211> 599
<212> DNA
<213> Homo sapiens

<400> 69
gtcattaaag aagatctaca gatggaaaaa agcacataaa aagaagctca acattgtttg 60
tggtaagcag cttctaagat ggtccccagt gatttccaca ttotogtatt cacactctgt 120
gtgatccctt cctcttgagt ataggttgga catagtcaat ctttctaac aaatagaata 180
tgaataaaaag tgatagaaag cagctctgag attaagctac agaaagactg tggtttccat 240
ttgggttctt tctagttttc tttctcagtt caccagcctg aggatgctcg ggcagcctay 300
ggaggtccac atgatgaaga actgagggtt accaacaacc atgtaagtga actggaagtg 360
gattttgcag tccagtcag ccttgagatg atttctactt gactgcaaac ttataagaga 420
ccctgaacta gctcaccoca gccacacota gccacacoca gattcctaac ccgcagaaac 480
tgtgagataa taaatgtttg ttgttttaag ccagtaattt gggggtaatt ggttgacag 540
cagtagataa caaatatatt attagtcagt aggtaaatac aaactaaagc taccaatga 599

<210> 70
<211> 599
<212> DNA
<213> Homo sapiens

<400> 70
aaccaccccc tgctggattg ggagaatgat ttccaagggt ctggaacctg cccttcttaa 60
cttccagatg attcataaac gttaaggagc actgtggcag agaagagggg aggacttggc 120
catgaccatg ttcccttctca agaaactgag aaggaagcaa tgggaagaga taggaaatgc 180
cccgaggaga tttttgtgta tggttttgat ccaaacgggt aaacttgtga cctgtgtact 240

caccaaataca	tttaaatgtga	actcactgtg	gactcacaga	atcttcaaata	gcattattct	300
aagagaaacat	ttatgaaata	gaaatttagg	ggtccttggg	ttgcgaaaaat	cttagaatca	360
tgatcttgga	aattctaata	tcattgatgt	aggtatttgg	tctcgccac	aggagtagct	420
tgatattaac	aaagtgtgag	aaaaccatca	gaattctaga	agaatgaggt	cacagacaca	480
agacactgaa	gaacagaaaa	tctgagaca	agaaggcttt	tagccatagt	cgttgcagct	540
taaaagtaga	ggatcataaa	gtcatgggac	taatcattac	agcatataat	cacaaacat	599

<210> 71
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 71	ttactctcag	aagataaagc	ccccagcagg	gacactcata	aaaaggaata	cgaatctgga	60
	gtgcttagga	gattgcctgc	tctgtccatc	cctgaaatg	aaagaatgat	ggagccggcc	120
	catgggtctc	accactaga	tggcgctgtg	aggtgcagtg	ggaagagtag	ctggaggcaa	180
	acctttgaga	ttcagatttt	ggacaaatat	tttaacttct	ggaggctcag	attcctcctt	240
	gagatacaact	tggcctgtat	ccccacacac	acagggtatgt	agatcatacg	ggataacgtr	300
	taagaaaagca	ctttcaagta	taaacacgtg	tgacataactt	gagcctgtgg	actgttgtca	360
	ctgaccactc	caccctgtgt	accagaggct	ggggctgtca	gagtcctagt	tcccaggacc	420
	ttccccaggc	ttctctatga	tcccttcaact	cctaccttca	ccacgtgtga	ccaagtcccc	480
	tggtttccca	gctaggagag	attgccagaa	aggagctcat	gttgatactg	tacttgcttg	540
	ctctttggaa	aagcacgtat	tgattaatct	cttcaccttt	gctgtacccc	ttttcctag	599

<210> 72
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 72	gtgaaaagat	agtttgagcc	caggggcaga	agttgtagt	agctatgact	gagccactgc	60
	acgccagcct	gggtaaacaga	gagagactct	gtctccaaaa	aaaagaaaga	aagaaaaaat	120
	aattagctgg	gcatgggtgg	aaacagttac	tcaggaggct	gaggcaggag	gatcacttga	180
	gcctgggagg	tcaaggtctg	agtgagcgt	gattgcacca	ctacactcca	gcctgggcaa	240
	tagagcaaga	ctgcctcaaa	aaacaaaaca	aaacaaacaa	aacagaagcc	attcatacay	300
	tgaatttttag	ggacccocta	gatccccctg	aagtctgctt	atctagccag	gtaagccaga	360
	acagagtggt	agaaaaaggg	tatcaatgaa	gagaaacaca	ataaaaatat	tacctagggt	420
	tataggtcat	tgaagagttc	agaagacact	ttcccaagca	ttatcctggc	aacaactctg	480
	taagggtcaca	gagctagagg	caggggtgag	tgacttgctt	gaggtcacga	gctagcccat	540
	ggcagggcag	aaagcgcttg	aagtttctga	ggccaagccc	agtgtctctc	gtatttccc	599

<210> 73
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 73	gcccaggggc	agaagttgta	gtgagctatg	actgagccac	tgacggccag	cctgggtaac	60
	agagagagac	tctgtctcca	aaaaaaagaa	agaaagaaaa	aataatttag	tgggcatggt	120
	ggcaaacagt	tactcaggag	gctgaggcag	gaggatcact	tgagcctggg	aggtcaaggc	180
	tgacagtgag	cgtgattgca	ccactacact	ccagcctggg	caatagagca	agactgcctc	240
	aaaaaacaaa	acaaaacaa	aaaaacagaa	gccattcata	cattgaattt	tagggacccs	300
	ctagatcccc	ctgaagtctg	cttatctagc	caggtaagcc	agaacagagt	ggtagaaaaa	360
	ggctatcaat	gaagagaaac	acaataaaaa	tattacctag	gtttatagggt	cattgaagag	420
	ttcagaagac	actttcccaa	gcattatcct	ggcaacaaat	ctgtaagggt	acagagctag	480
	aggcaggggt	cagtgaactg	cctgagggtc	cgagctagcc	catggcaggg	cagaaagcgc	540
	ttgaagtttc	tgaggccaag	cccagtgcct	ttcgtatttc	ccatcttgct	tcccaggag	599

<210> 74
 <211> 599
 <212> DNA
 <213> Homo sapiens

```

<400> 74
ggagcgcagta cctcggagac agtgcgcgcc gcccggggcc tcatccacag cgggggtcgcg 60
ggcgccccc ttagcccgcg tgactgtggg atcctgagaa cattccgctg tatgtcttgg 120
aaccttctaa ccctaggaat ttgcaaacc cccaggtcc ccatctggg ggctcagaga 180
ctggaggtgc cttttttatt tttttcttct tcactttatg aacacagaaa aatcgtttgt 240
ccctctccgg gccctgcacc cgcagcgctc gtgtgcaggc gtccccgggc tgtggataay 300
tagacacgtt cttccctcat tgcccaaggc tcgttagaat tcgccctaga gctgtatcat 360
gtattttctt tcaaattaac tttgcttgca attagctta gggaaaccagc aacaaaagca 420
aacttggccc gaggtcgttc accgcgaaaa tggattagag aaacttcttc cccgatttaa 480
ggggaaagat tcctgcggcc agcgctttgg ggaaagtgcc ccgaccgcag aggcgacgac 540
aggggagcag gaagctgctc acggtagtcg gcgttggcgg cagcgggtggc cttctcat 599

```

```

<210> 75
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 75
attgcccaag gctcgttaga attcgcccta gagctgtatc atgtattttc tttcaaatta 60
actttgcttg caattaagct taggggaacca gcaacaaaag caaacttggc ccgaggtcgt 120
tcaccgcgaa aatggattag agaaacttct tccccgattt aaggggaag attcctgcgg 180
ccagcgcttt ggggaaagtg ccccgaccgc agagggcgac acaggggagc aggaagctgc 240
tcacggtagt cggcgttggc ggcagcggtg gccttcctca tctgggcgat gtgggctock 300
agaagagtaa ggataaacat ctggaaatga cttctgtacg gtttgagccc aactgcacac 360
tcatgacttg gagctgcctt gtggagttac agtttaccaa acacattcat gaacataatc 420
tcatttacta aaaactttgt gagaattttc ttttactaaa atttttctt attacaaaat 480
cagtagtggt cattgtttta aaagaaataa caggtaaaga aaataaagag ggagggaaat 540
aacagcaaaa aaaaaaaaaa aaaaagcgtg gcggggggga acccatagtt ggcccagag 599

```

```

<210> 76
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 76
ggggccccag gggaggccac gggccgcggg gcgggcgggc ggcgccgcaa gggccccctg 60
cagcgccggg agccgcctta cagctacatc gcgctcatcg ccattggccat cgggcacgag 120
cccgagcgcc gcctcacgct gggcggcac cacaagttca tcaccgagcg cttcccttc 180
tacgcgcaca accccaaaaa gtggcagaac agcatccgcc acaacctcac actcaacgac 240
tgcttcctca agatcccgcg cggagccggc cggccgggga agggcaacta ctgggcgcty 300
gaccccaacg cggaggacat gttcgagagc ggcagcttcc tgccgcgccc caagcgcttc 360
aagcgctcgg acctctccac ctaccggct tacatgcacg acgcggcgcc tgccgcagcc 420
gccgcgcggc ccgcgcgcgc gccgcgcgcc atcttcccag gcgcgggtgc cgcgcgcgc 480
ccccctacc cgggcgcgct ctatgcaggc tacgcgcgc cgtcgttggc cgcgcgcgc 540
ccagtctact acccgcgggc gtcgcgcggc ccttgccggc tcttcggcct ggttcctga 599

```

```

<210> 77
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 77
tgaccctgcc acccgtcggc ccaaattcca gaccagcct tgtgaccttg aagagtgcag 60
gtattgggcc gccctcctct cctaagaat ctttgagggt atggagtcca aggggttctc 120
ttcattcagc tagacaagct ggctgtccca ggtgcagagg tcaggatgac ttgcctgggt 180
gagaagaatg ggaaagtaag agttctccac ccaggagttt tgttctgggc tgcagaagag 240
cccaggcgtg ggactggggc tggagaaggc tggtttttgc ccttagtgcc agagttgags 300
ctttctctgt ttctaataa gcaagtccag tgctttgaca gcaccactaa tottaagcca 360
gtcccttctc ctctcgggtc gtcatctgtg aaatgggaat ttgtgactgc tacctoagat 420
aattttcctg aagttaaacg agaggagagg tgaaggagc tttgtaaact gcaaggcgca 480
gagcatagca gggctgaaag gctttaata agcgtgcct tgtaacaaag cctcctggag 540
tgtcatgata aagccccggg aaggagaaag acagggtggg aaagagcgga cattttcgt 599

```

<210> 78
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 78
 cgacagccct tctcggcctc ccaccggccg acgacaccaa gagctcgcgc accggccggg 60
 ccagggtgga atgggcgcgc cgcaggggag cgagtaacct ggagacagtg cgcgcgcgcc 120
 ggggcctcat ccacagcggg gtcgcggggc gccccottag cccgcgtgac tgtgggatcc 180
 tgagaacatt ccgctgtatg tcttggaaac ttctaacctt aggaatttgc aaaccctcc 240
 cagtccctca tctgggggct cagagactgg aggtgccttt tttatTTTTt tcttcttcay 300
 tttatgaaca cagaaaaatc gtttgtccct ctccggggcc tgcacccgcc agcgtcgtgt 360
 gcaggcgtcc ccgggctgtg gataattaga caogttcttc cctcattgcc caaggctcgt 420
 tagaattcgc cctagagctg tatcatgtat tttctttcaa attaactttg cttgcaatta 480
 agcttaggga accagcaata aaagcaaaact tggcccgagg tegtccaccg cgaatatgga 540
 ttagagaaac ttcttccccc atttaagggg aaagattcct gcggccagcg ctttgggga 599

<210> 79
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 79
 aggattccaa gactcagaaa gtactcaaag gaggagatga agcactccac cccatctctg 60
 tcccttggcc accctgcctt ctctgctctc tgtggtcaga gccacaagac agcgtctggg 120
 tgetagctgg gggtccgggc cagaaacagg aggccttctag aagttattct ggcatctcta 180
 atctcaataa cacatttttt caaagttctt tctctttgac cagggcatag gaatcaccta 240
 aggtctttat agaaaggcag gttctggtct aggaggtctg gggtgaggcc aaagaaccar 300
 tatttctagc aagctccag ggaatgtcct tgcagccgac ctccatctct tgtgtaaacc 360
 aacagggagg gcttgcctcc ctttgcctcc aggccttgcct cctggccctt gcagaagtgc 420
 atcttgcat caagtgacca aaagaagagg cattagaaaa tgtgaaaggg taaaagggga 480
 cctgcaccca gttttatagg tggggaaaca ggccactcc atgccagaag gaatttgttc 540
 aagacctcac agcaatttag tgacaaagtc aagactcagg cctcctgtat aggggaaa 599

<210> 80
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 80
 ccccatcctt catggtacat gccctgtctt gaaotgtttt tcatcaggga catattcccc 60
 cagotatctt gtcattgtct cctcaggaa caggctgagc acacacagaa agtcaagctc 120
 gtatgtgttc aaggcagggg agggttcctt agggcactga ggaggacctt aggcctttac 180
 tagaggatcc tttggcccag actgacttgg agacagggac cccttccagt tggccattgt 240
 gtcctgaaca gaaagcttaa tttttctcct aaacctcaa ctacctcaga cttggggctr 300
 gagctgaggg gtcagaggca aagtttattc tatactcagg caattgactg ttgctaaggg 360
 agggatataga gcttgaacc cagggtccct cagtgcctca gccggaaatc aggacgtggc 420
 ttcttgccct ggctctgtca cccagcttt caagatgttt tcagatatac tcttgttgaa 480
 tgtcattgtc acagtcaacc atacagctgg aaacaggaga tgaggtagag tctaagggct 540
 aggattccaa gactcagaaa gtactcaaag gaggagatga agcactccac cccatctct 599

<210> 81
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 81
 atccgagctt ccgttctcag aagagggagt gtggggctgg cagaggggtt caggaactcc 60
 acagggagca gacagcattc ctcttttgag gccaaagcatt gaggaccatg ccaggggctc 120
 tgcaaaggct ggctttggcc tcagccaggg agaggagatg ctggagagag ggccggggga 180
 ggagagcaga actcactaag ggcatcccat ctgcctccta cctgctgt ccatccatt 240
 taaaattttg ttcactgctt agtttggcct gaggagcact aactacacta ctttctctcr 300
 aggtagtctt aagctattta tttaacaggt aagtccattc ctcaagctgc agtccatccc 360

cactccttag	cccctacctt	cacatcctca	ccagattact	tttactttcca	tattaccttc	420
attaagatga	taatcaaatg	cagtctccat	tgggggaggg	agagggttcta	gtccagcttg	480
gacacttgta	actgtcatat	cttgggcaag	tcacacaccc	cttctatggc	totatggagg	540
ctccacacac	actcacaata	ttcctattta	tttctattgg	gaacttatac	aagcaatga	599

<210> 82
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 82						
gagggtgggag	ttgagtcctg	ggagggtgggtg	gctctcaatt	tattgcctgg	ttgcagagca	60
cctccatggc	tgagaaacca	tgactggggc	tctgccctga	ccacccccac	ttgagaaact	120
gctccagggt	ctcagatagc	gagataaaact	ggtgctctgc	cccatggctg	agatccaccc	180
tgattctggc	ttcccaatct	cttcctcacc	ctgggagggg	ctgacagctg	ttccctgggt	240
gtctgactag	gtgcttcctg	gttaaccctt	ctgggctgag	ctggaaatcc	gagcttccgy	300
tctcagaaga	gggagtgtgg	ggctggcaga	ggggttcagg	aatccacag	ggagcagaca	360
gcattcctct	tttgaggcca	agcattgagg	accatgccag	gggctctgca	aaggctggct	420
ttggcctcag	ccagggagag	gagatgctgg	agagagggcc	ggggcaggag	agcagaactc	480
actaaggcca	ttccatctcg	cccctactct	gcctgtccat	cccattttaa	attttgttca	540
ctgcttagtt	tggcctgagg	agcactaact	acactacttt	ctctcaaggt	agttotaag	599

<210> 83
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 83						
acatttttaa	ttttaccttt	tctagtagat	gtgaaatgat	atctcattgt	ggtttttatt	60
tgcatatcca	taatgaccaa	taagggtgag	cttcttttca	catgctgatt	ggccacctat	120
ataacttctt	tgaggtaatg	tctgttgtag	tcttttgtcc	atttttaact	gggtagtttg	180
ggtgtttctt	tggtcttcag	ttgtaagaat	tctttgtata	ttctggatat	taaactttat	240
caaagtgtgt	atatgaaaat	attttctccc	tttccatgga	ttgtcttttt	actcaottgr	300
tagtttcatt	tgattcaaga	aagtttttgg	ttttgagaag	gtacaatgta	tctatttttg	360
ctgttggtgc	ctatgotttt	aatgtcaaaa	aatgatgtta	agaaaccatt	gccaggccgg	420
gtgcagtggg	ttcacacctg	taatccacag	actttgggag	gccgagtggg	gtggatcgct	480
tgaaccacag	aattcaagac	cagcctgggc	aacatggcaa	aacctgttg	ctacaaaaaa	540
tacaaaagtt	ggccagggtg	ggtggcgctc	acctgtagtc	ccagttactc	gacaggctg	599

<210> 84
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 84						
gagacccttg	tctctacaaa	aaaattttaa	aatagtgggg	catgggtggc	tgagcctgta	60
gaccagctga	ctcaggaagg	tgagggtggg	ggatcccttg	agcctgggag	gttaaggctg	120
cagtgaagta	tgatcaggct	actgcactcc	agcctgggca	aaagcatgag	actcatctct	180
aaaaaaaaaa	tcaaaaacca	aaaatcaaat	taaagataac	tccccaagaa	gttctaagta	240
acatcaaagg	caattacaaa	tcagtttggg	ttaggagtac	agtgtcatca	gcoacaaatk	300
actctgcaca	agtatccaca	ggcagcagaa	ctcattttcaa	aactattcaa	gactattttca	360
atcagctcat	ttcgatcagc	tattaagatt	tacaatcatg	attaggaaag	catgtatcat	420
gttgacagggt	gtctaatttg	gttatgttga	tcataaatcc	tcagttatct	gggagcacat	480
cattaaaatc	acctataggg	aatacattct	tacaactgtt	tcctatgtgg	tactacagag	540
gatccatgta	taattactgt	attttctaaaa	ctataatata	ataatttatt	tatgtctta	599

<210> 85
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 85						
tcatatatat	atacatttgg	atatatactt	gtataccaaa	aaaaattttg	tttttagagac	60

gggcttttca	cgttaccag	actgttccca	aactcctggc	ctcaaacgat	ctgccaccct	120
cagcagccca	aagtgtctagg	attacaagca	tgagctgccc	tgccccacca	ggaaacttat	180
tttttacaat	ataaacatcc	ctattatata	tttaattgag	ctttaaaact	tatgacttgc	240
cccttctcca	tcacggagg	agggcttgct	tcaataacct	cacaccatga	ttataattgy	300
attttcatat	atatatatac	tttttttttt	tttttttttt	agatggagac	tgcctctgtc	360
agccaggctg	gagtgccagt	gtgccatctc	ggctcactgc	aagctccgcc	tcccagggttc	420
acgccattct	cctgcctcag	cctcccaagt	agctgggact	acaggcgcc	gtcaccacac	480
ccggctaatt	tttttatttt	tagtagagac	ggggtttcac	cacgttagcc	aggatgggtct	540
cgatctcccg	acctcgtgat	ccgcccgcct	cggcctccca	aagtgtctggg	attacaggc	599

<210> 86
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 86						
attttttagca	gagacgggggt	ttotctatgt	tgaggctgggt	ctcgaactcc	tgacatcagg	60
tgacccgccc	acctcagcct	cccaaagtgc	tgggattaca	ggcgtgagcc	atcgccccc	120
gccaacacat	tcttttatcc	caaattttta	tcaaaacctc	acacaactat	tcaaccttgt	180
gtgaagtggg	gtccgccttc	attttccctg	cacagggtgct	cataaagaat	ggtgtctctct	240
cctggggact	gtgctcagg	cttttgatgg	cagggccatg	ttgaggacaa	ctgtccagcr	300
ggcaactcca	gacaggcatg	aaacaatoca	cctcttttct	gccatataaa	tatoagotta	360
ttttgagaag	aaagtgtgcc	agacactgct	agttgtctac	ccacccattt	tcttcaacttc	420
ttgtttgtct	gcaagaccct	gattttgttc	aggtttcagt	tggtttgtgtc	ttatcccttg	480
gcagtgaaat	ttgacttgca	taaggtaagc	gcagtcacta	tcttatcact	cttgtcagag	540
attgatattg	aaacagggtac	aggatacttt	ctgggccaat	gagatgttca	ggaaagtct	599

<210> 87
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 87						
cctcacaaaag	gacacttgaa	gttgtgcccc	cagaggcaaa	tgtctcatatg	gagactcaag	60
aaagcctggg	gttcagaaga	ggcttgagat	catgttatga	gaaacagctg	aagaaaacgg	120
gggtgtctcag	cctagggaag	accaaggggt	ggtatgacag	gctaacttgg	gagggcaacc	180
agcctgtgtg	gcctctctag	tgggcagagc	tgtcggagga	cagagtggat	ctcacgttca	240
ggaagaatgt	tttaataatg	agcactgcc	ataaagaata	agctgcacag	gtcaggggtr	300
tatacctcat	ttaggcagg	octggaaagg	ocagatagt	ggaacattga	agagactcag	360
gaactggcag	aaaactgagc	cagattatat	ttaacatcct	ttttattatt	tttgtgggtt	420
ttttttgaga	cagggtctca	ctctgtcgcc	caggetggag	tgcagtggca	cgatctcggc	480
tcaactgcaac	ctctgcctcc	caggttcaag	cgattctcct	gccttagcct	cccaggtagc	540
tgggattaca	ggcatgcgcc	attaccaccc	agctaatttt	tgtattttta	gtagaggta	599

<210> 88
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 88						
caatccaccc	tctttctgcc	atataaatat	cagcttattt	tgagaagaaa	gtgtgccaga	60
cactgctagt	tgtctaccca	cccatTTTTct	tcacttcttg	tttgctcgca	agaccctgat	120
tttgttcagg	tttcagttgg	ttgtgtctta	tcccttggca	gtgaatcttg	acttgcataa	180
ggtaagcgca	gtcactatoc	tatcactott	gtcagagatt	gatttggaaa	cagggtacagg	240
atactttctg	ggccaatgag	atgttcagg	aagtctgctg	tggacttctg	gaacacatty	300
atttggtctt	aacaaaaaat	aggggagggc	atggtggtgt	atgcctgtta	tcccagctac	360
tcaggagcct	gagycaggag	aatcacctga	acccgggagg	cagagggttg	cgtaagccga	420
gatcgaccca	ctgcaactca	gcctgggtga	cagagccaga	ctctgtctca	aaaacaacaa	480
tgacaataac	aacaacaaca	acaaacaaat	gtatcctaac	tgatacagaa	agtgaacctg	540
aaagggcagg	ggaaaactga	ttcttgatgt	attccctttg	agacttctct	tggcttctt	599

<210> 89
 <211> 599

<212> DNA
<213> Homo sapiens

<400> 89
aactccagac aggcattgaaa caatcoaccc tctttctgcc atataaatat cagcttatttt 60
tgagaagaaa gtgtgccaga cactgctagt tgtctaccca cccattttct tcaattctttg 120
tttgctcgca agaccctgat tttgttcagg tttoagttgg ttgtgtctta tcccttggca 180
gtgaatcttg acttgcataa ggtaagcgca gtcactatcc tatcactctt gtcagagatt 240
gatttggaag cagggtacagg atactttctg ggccaatgag atgttcagga aagtctgcts 300
tggacttctg gaacacattc atttggctct aacaaaaaat aggggagggc atgggtggtgt 360
atgcctgtta tccagctac tcaggagcct gaggcaggag aatcacctga acccgaggag 420
cagaggttgc cgttaagcga gatcgacca ctgcactcca gcctgggtga cagagccaga 480
ctctgtctca aaaacaacaa tgacaataac aacaacaaca acaaacaaat gtatcctaac 540
tgatacagaa agtgaccatg aaagggcagg ggaaaactga ttcttgatgt attcccttt 599

<210> 90
<211> 599
<212> DNA
<213> Homo sapiens

<400> 90
gaaggtctgg taaaggtatt taacattttct gaacttcaat ttctcatcc caaaaatggg 60
ggataaatta tattacttaa gacagttaag gcgattgtat gaaatgagtg taaaaatggt 120
ttaccgtact acctggcaaa cagcagacac ttagtaaata ttgtttgttg ggcacttgat 180
aaacgtctct caagttccta ctgtgtgcca gttgttgtgt tagctgcasa ggatgtggag 240
atgagattct gtctcttctt ttaaggaaag gggatggtgt tattttcttc ctaccagatk 300
acaagttaat actattttaa acatgatttc tgttaatttg tgggagattg catttttttc 360
cccatcagat cattgtggtt aaataacttg tgcctttttc ttattccgtg gtttgttttg 420
ttttgttttc tataggattt tgtttgtttt tcacaaaaat ggtcatttga gctgtaaggc 480
aaaagtgcag cctcctaggc tgaatggtgc aaagactgga gttttttcca caaggagccc 540
tcctcgtccc aatgcaatag gactgacctt ggccaagctg gaaaaggtag aaggtaacc 599

<210> 91
<211> 599
<212> DNA
<213> Homo sapiens

<400> 91
agtattcaac taatatgtat taagcaagga gcgtgacaag tgctgggata tggagttgaa 60
caggaaaaaa tccctgcctg caaggagcct acgttctggt gcataaacag acactctata 120
aaccaatgtg acatgaagtg goagagatca gcaactaggt gagaggaagg agctcccca 180
agccttggcc aggagggttg gcaggccctg gggggagggt gtgtttgaac tgagtcata 240
gggatggata aatagaaatc ttccacaaga agtgggcagg gcattccagg aatgagctar 300
aaagcccaga gtccaaagca gcatgacatg tacaaaaact acacatggca caggtaaaat 360
gtgggtggga tgcggagaca gaaaagggtc aatagggaca cagctcacat gattggaaga 420
tgagaccctg gatagactcc agtaaaaact atgtgaattt cagagaactc ctccctcctt 480
gcaataattc acaatcctat tcccaccacc atgacaccca gtggtatcct cagagtagga 540
gtcagcttac tgccttgact taacctacct tcccagaaa gcagagcttg aggcagagg 599

<210> 92
<211> 599
<212> DNA
<213> Homo sapiens

<400> 92
accaaagcct atacaccaat gttcatagta gcagtcttca caatagccaa aagataggaa 60
caactccttt taatcacatt tatcagccaa aaatagtcac atgaccatgc tttatttcaa 120
ggggacagaa gattatatgc atccacatac ttagaagtaa aagagaattg gataattggt 180
gaacattaac tatcttccac gattacctgt gatactaaaa attatttcca caccacata 240
ttgcaaagag attgaaacag aacttgctca aagaatgtga actgtcccat gaaccagagr 300
tcctaccag aaaaagtggg agaactgcaa ctccagccac accttattct ctcaatacat 360
tcccagtatg gacggccaaa attccagaaa ccccaaggac atctgggtgg cagctctatt 420
tgattaaaaa gtctcttaac tggcagaggt tgccgtgagc tgaaatogcg ccattgcact 480

ccagcctggg	taacaagagc	gaaactctgt	ctcaaaaaaa	aaaaaaagtc	tcttagctgc	540
ctagaaaacca	acgtttttcc	ttttcacttg	ctatgcacgc	tatcagatac	ctctaccac	599

<210> 93
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 93						
gaaagatcaa	gggaattcct	gtagtggttg	tgaaggggtga	tcctaggggtg	ataaccatgc	60
ccaaatacaga	gaggccaaga	gacctagatt	gcagcaagac	agaaggcaag	aagtggaaac	120
tggttaagttc	atacggaaaac	acagagagga	gggcatttaag	gatggtaata	atTTTTTTTta	180
attcagcaaaa	tgaaaaacaca	gataattatt	atctccagac	aaaaccaaaa	gtccaaaaat	240
ggaaataaat	aaataaataa	ataaataaat	aaataaatag	tattctacta	gttcagctgk	300
gaaaagcatt	tagataatac	tataaacact	gactattgat	ctaattaaca	ttatgatatg	360
actatattag	gaggatgggg	taataggaag	gatgggtaca	catgggtgga	ataggtgtaa	420
aagaaagcta	aatcttttatt	ttccatagtg	ttaagcccaa	aatctgaaat	attaagtagt	480
agctgacacc	gaaagcacat	gcaacaaaag	caaaaataaa	caactgggac	tatatcaaatt	540
taaatagttt	cttcacagca	aaggtaacca	tcaacaaaac	aaaaagacat	ccaacctat	599

<210> 94
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 94						
ttggtagact	acacatacct	ccctgtggca	gccaggcccc	caccacccat	tctcatcatt	60
ccacacaaaac	gtgagcccct	acctgaaca	agatggttga	tggagcactg	gcagaagcag	120
agtgaagttga	aggtggcttc	ctccaggac	tgcatggtca	cagacccoag	caccagcaaa	180
gtatggtcat	caggaccaca	ggaagggccca	gagatgggct	atggggcaat	ggggtcagga	240
agagtgtccc	atcttcctga	agggtgatac	tggacotggt	ccttggagaa	taagaaagay	300
ctgatgaagc	aaaaccctgg	aaggagggtga	tccaagatga	agagaaagta	tgagggtgcag	360
tctggaggca	ggaagatgg	gctgcctcgg	aatcacacca	ggtagaatgg	ttgggtgggt	420
gaattggggag	gtggagctgg	agaggtatgt	agggcagatg	gcaaaaggcc	ttaaattcag	480
gccaaaggaga	gtggacttga	ttatggaggc	aacagagact	gagggacaag	agctgggatt	540
ggaaagaggc	cccaagcata	tatgaagctc	ccctactcat	gcctgccccca	caccttttc	599

<210> 95
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 95						
gagtcaaaaac	agagactctt	ccaagtggca	tgggaattag	ggtccccttg	acctgaggag	60
cttgggtttc	tggagatgac	tgaagtggac	aggaatgaaa	ggcatcctga	aattagtctt	120
aagagtctct	taggggaagg	tggacttgag	acaaaaggca	caatgctggt	tagcaacaat	180
tctctactgt	gcctgtgagt	aatgcagaag	ccagaatgag	tcctggaagg	gattgttctc	240
ttaaggggag	ttcactgtga	aggcttccgg	ggagggtcca	tctaccctga	aaatggatcy	300
ctagggttga	cttttccaac	tcctcagggt	gtgcagtggt	atgatgctct	ggagcacaag	360
gagctcagag	cctgccactg	tgctgctggg	tggtgtggtg	gtgtggcggg	caggctccca	420
aatcattcca	cacaagtgc	atttgtgtaa	acaccactgt	aatttctctg	ttggagtctg	480
cagaccgatc	ctcaagttat	cagggagaat	tttaattttt	ctatattgat	aataagctta	540
acaaataata	aaatcatatt	ctatgtcttc	tagatgtgag	gctaccagat	aaattacag	599

<210> 96
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 96						
tacagaaaag	gaaactgagg	tcacaagatg	ggcagacact	tgtacagtat	tatacagcat	60
tagtggcagg	gccaagatca	catcccgacc	tctgcattcc	tgtgccagta	ctcttttctt	120
caccatttct	cctctgaaga	gcgcttcctt	aaaaatagtt	ctaacaaaaa	tgaagctgct	180

tcttcatgtc	atcttactga	tctcatgtag	gcagttattgt	gtcaggaatc	ttatatattga	240
attgtagcaa	cgtttggttt	cctggatata	tgcttcagag	gtcatgtggt	gaacctccr	300
agacaccagt	caaagtttgc	tgaacccaaa	cctccaagtc	gttcacctga	aagatctaaa	360
ccaacagaaa	tgaacaaaat	tggcattgct	ttgtctcact	atctcgtgag	atgcgtgaga	420
attcttaagc	agacagttac	tgcctgtgtc	atgggtaaaa	tcccaaatca	ttttgtgggg	480
tttgttattg	ttccaacagc	tataagagag	ccaatatctg	catgtaccaa	catctctttg	540
tagtatcgct	tcctggatcc	tttttttttt	tttttttttt	cgccttgatt	tgggagtca	599

<210> 97
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 97	
gacatgagct	gagagtgtgtg aataaaccoc tgtactttgt acttacttac tcaacttgac 60
aaacattccc	catggacttg cctctgtca gactgcactg ggaactgggg attctgtagt 120
gaatcaggca	ctatgtttgc tcttcagaat ctatgaagag ttgggctcac atagccaaaa 180
tgcaaagcag	agcatggcag cgccctggaa gatgaattcc agattcctgc tgcctggtcc 240
agaatcagca	tagcccaaca atgctagggtg accttgggtca agttgcttaa tctctctacy 300
ctcagtttcc	atccttacc tttcttctca aagagctact ctaagaagaa aataagacaa 360
ttggcctgga	catactttgg agtcaaagct gaatagggag agacgattgc tagtgtttca 420
tagtgtcctc	agtaacatag acaccattta ttcagtatct tcccagggtac caagcatctg 480
accagtgttg	catgtcattc ttccaacact cctggtacag ctctattatt atctatatatt 540
tagagatgag	aaatttgaggc tcagagaggg gaggtgactt acccatgggtc acactgctt 599

<210> 98
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 98	
aaaaaaaaaa	aaaaaagaga cgaaactatt atgtggttgt gctgccctgc cctcagtatg 60
tttgttaata	aataaataag gggtatgaat aattgtgcaa tgaataacatc ctgatggtaa 120
aaaatttaat	gtacacacaa aggggggtag gcagatagga gggaaacaat attgtaacat 180
ccactgtac	tattggttct caaccttacc tccactttag gattgtcagg agagctttta 240
aaataaaaa	atccraaatg caattctata tcttggattg gacctgaag cagacaaags 300
acattagtgg	aaaaattcat gaaaacggaa taatgtctgt agttaatggt agtgtaacta 360
tcctgatttc	ttagttttga caaatggccc atggttatgt aagacgttaa cattgggtga 420
aactgggcga	aaggtatata gtaacttttg tactatcatg acaacttttc tgaatttcta 480
aaattatttc	tcacaaaaact attatttgaa gcataaaaaca attaaaaaat aaatatacct 540
atgcctgtac	atcagctaga tgggggaatc tgaatccctg ggggagaagt ctggacata 599

<210> 99
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 99	
acacacacac	gggcagccta attttccatc caaagtcttt acattcagaa agcagattaa 60
tcttgatttc	acttgatttc ccatggggat ctctcatact aatccttcag aaaagtgaac 120
caacttaaat	ccccaccaa gctctgttct aaggagggaat attcaactct gtggcaatta 180
cattccaaag	tccctatttt ctgtagagag cttccctgggt gtttaaccact tttccttagt 240
tattctttta	ttttttttat tttattttgt tttattttat tcttttattc taccaacaay 300
tccacaatgt	aggtattagt gttctttttg tctgtgagaa aactgaactt caaaaagggt 360
aaataacttt	ctcaaagaca cagcaataag tggcagaacc aggattcaaa cactcattct 420
caggacacca	gacctgttac ctcatgttcc cctggtccac cctgccagac cagagcagag 480
gtcctttgta	caggttgcag ggaagctttt ttgagactca caggaaatga gagctaaaa 540
gacctgttag	gtcctcattt cacatttctg tccatctttc aaacaaacca cattgtaca 599

<210> 100
 <211> 599
 <212> DNA
 <213> Homo sapiens

```

<400> 100
agtttgattt ccgtcactca aaccaagaga gtactaaatg agaccagcat cttccattta 60
ttaagctcac ttatgtgctg ggagcttttc actgtatcac tttatgtaat cttgcacaca 120
gtcacatgaa ccatatggcc attttataga caaggaagct gagacacaga gggctgaggg 180
atgtacctag ggccaccocag ctgttagtaa gtggccaaaag agggattcaa acccaggtct 240
gcctaacaac aaacccatgt ccctaactct tgccacagtg ctattcacac tatgccctgr 300
agcttctcca gttctcactc tctgggatgg gcagcttcag aacagactca gcttccatga 360
cttgaccttt tgtgtactgg cttcttctac cgcgtatgaa ctgcacataa aattactccc 420
ataaataatt tttcaataca agatcttatg atggttctta gcagcttagc gggtttagagt 480
caaagtctcc atgctggatc tgtcctcaca ccttcaccca actaagtaaa tactttttat 540
tgacatcccc ttitggaaagt gagacttttc tgatctgac aaatcctggc ctttaagaa 599

```

```

<210> 101
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 101
gtaatgggtga gcaactcaggg gcagaatggc caatgtgtga gacttcaaac cacacaagag 60
gaagagaaaag gcaagcatcc ccagctagcc tgaggcatat tggcccatga tcttagagg 120
cagaatgtgg agggagctcc gacgggttat ggccaagtat gttcttgggc aaaccactct 180
ccaaagaagg gaaagagaga agctccctgt tagtaacta ccaccatgtg ccaggcactt 240
ttcctgctgt gtctactctg ttcagcaaca ctgtgaggcg gggattatga tctcttatos 300
gttctctctg tgacttctaa ooaaggctgt ggcaaggttt tgtgctatag gtggcatttg 360
ccctgagctt taaaactagg tagactttgg gcatgtagag gtaaagtgg gatgtggaag 420
ggaacaaaag gccattttagg cagaggggaat aaaatagaga gggaaaaaag gaggtaatg 480
tgggtccctg gattttaaaa gtagagttgc cattgtttca ttttttttaa aaaagagtat 540
actctgagga gtagctggag ctaagtctgc gaaggccaat taggatctgt tcttgaaaa 599

```

```

<210> 102
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 102
caggggcaga atggccaatg tgtgagactt caaaccacac aagagggaaga gaaaggcaag 60
catccccagc tagcctgagg catattggcc catgatcctt agaggcagaa tgtggaggga 120
gctccgacgg gttatggcca agtatgttct tgggcaaaac actctccaaa gaagggaag 180
agagaagctc cctgttagta aactaccacc atgtgccagg cacttttctt gctgtgtcta 240
ctctgttcag caacaotgtg aggcggggat tatgatctct tatcggttcc tctggtgack 300
tctaaccaag gctgtggcaa ggttttctgc tatagggtggc atttgccctg agctttaaaa 360
ctaggtagac tttgggcatt tagaggtaaa gttgggatgt ggaagggaac aaagggcatt 420
ttaggcagag ggaataaaat agagagggaa aaaaggaggt aattgtgggt ccctggattt 480
taaaagtaga gttgccattg tttcattttt tttaaaaaag agtatactct gaggagtagc 540
tggagctaag tctgcgaagg ccaattagga tctgttcttg aaaaagagcc ccaaatgcc 599

```

```

<210> 103
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 103
atcacctgag gtcaggagtt cgagaccagc ctgaccaata tggtgaaaac ccactctttac 60
taaaaaataca aaaattagct agtcatggta gcatgtgcct gtagccccag ctactcagga 120
ggctgaggca ggagaattgc ttgaagctgg gaggcggagg ttgcagtga tgcagattgc 180
gccactgcac tccagcctgg gcaacagagg gagactctgt ctacaaaaaa aaaaaaaaaa 240
aaaaaaaaat taaactaact aaataaaaag taaaatttag ttcctcagtc acactagccw 300
caaaggcctc aataacccta tgtagctact ggctactgat tggacaacac aaacatagaa 360
catttccatc attgtagaaa gtccctttct agaaactcaa actatggctg cagaactaag 420
aggggcagac catctgctac aaacaccatt cttttccaac ccagcaccga gcactaggcc 480
agacacagcc tcttctctcc tctctctctc tctttccac ccactcttct ccacaccct 540
ttccaggagc agatcataat cccggaagag acaaccttga acaccataat cccaaatat 599

```

<210> 104
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 104
 cttaacttta ttattcctct gtaagtgat ctttcattga agtctctatt tgaaccatct 60
 ggggtgcattc tgtttcctgt tgaaagtgat aaagcaaat gcttattttc tcgtgcctca 120
 gtgtcctcat ctaaaaataa gaatcatatt aatgccact tcgcagggat gatattggca 180
 tcaaatgaga aaatgtatct atgataccta gttcagtgcc tggcataggt aagtgtcaa 240
 tgaacgttca ttgatattat catcatcact ccattggaa ttataaact ggggctatay 300
 gatctctata ggtccttaca gcatgaatgg aatatgaatg ggtgattctc tatacaaaag 360
 ttgtgccaa tccagatatt attttagtct ttgtatctca aggtagagtt gaggcttaga 420
 caataaaaaat tataattatc tcttggtgcc atttataagc aagaggacta tgccttttac 480
 agagaggttt cttcacgtga tgtcagccat ttggaacttt catgccctgt tacagataac 540
 aggtaacatt tatggagcat tttctctatg ccaataaacc tgagtcttta tatgtggaa 599

<210> 105
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 105
 gcagagatca gcactaggta gagagggaagg agctcccca agccttggcc aggagggttg 60
 gcaggccctg gggggagggtg gtgtttgaac tgagtcatga gggatggata aatagaaatc 120
 tttcacaaga agtgggcagg gcattccagg aatgagctag aaagcccaga gtccaaagca 180
 gcatgacatg taaaaaaact acacatggca caggtaaaat gtgggtggga tgcggagaca 240
 gaaaagggtc aatagggaca cagctcacat gattggaaga tgagacctg gatagactcm 300
 agtaaaactt atgtgaattt cagagaactc ctccctcctt gcaataattc acaatcctat 360
 tcccaccacc atgacaccca gtggtatcct cagagtagga gtcagcttac tgcttggact 420
 taacctacct tcccagaaa gcagagcttg aggcagaggg cttttgagct gccatagatg 480
 atcctcaact taccatggtt taacttatga cttttcaact ttatgatggt gcaagagtga 540
 tacacattca gtagaaacog tagttcaaga gccatacaa ccattctgat tttcacttg 599

<210> 106
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 106
 gtgattgctt ataagacaac ccaoggaatc cagaataagt tctgctctc aagatcotta 60
 accacatctt tgtcacataa gggaataatc actcttttgc tatataaggt aatagtcaca 120
 ggtagcaggg attaggatgt gaacgcagct tttggggcca ccatccaacc cactacacca 180
 gaaattagca ggtgaatctc cacccttcc ctgtttgatg ttattttgtc tctctcagta 240
 tattcctttg ggtgggacac ttgtgtctag aaacagcaat tgtcggtttg aatctcatcy 300
 atagtgtttc tccggccttc ttttctttct ttctttcttc tttttttttt ttgtttgaag 360
 cagagtctcg ctctgtttcc caggetggag tgcagtgggt caatctcagc tcaactgcaac 420
 cgcgcctcc tgggttcaag tgattcttct gtctaagcct ccagagtagc tgggaattata 480
 ggcgcatacc agcacacctg gctaattttt ttgtattttt ggttgagatg ggtttttgca 540
 atgtttggca ggtggtctc aaactcctga cctcaggtga tccaccgct ttggccttc 599

<210> 107
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 107
 tggcaaaaac ccactcacc caaaaataca aaaaaattag ccaggtgtgc tgggtatgcgc 60
 ctataattcc agctactcgg gaggttaga cagaagaatc acttgaacc aggaggcggc 120
 ggttgacagt agctgagatt gcaccactgc actccagcct gggaaacaga gcgagactct 180
 gcttcaaaaca aaaaaaaaaa agaagaaaag aagaagaaa agaaaggccg agaaacacta 240
 tggatgagat tcaaaccgac aattgctgtt tctagacaca agtgtccac ccaaaggaa 300

atactgagag	agacaaaata	acatcaaaca	gggaaggggt	ggagattcac	ctgctaattt	360
ctggtgtagt	gggttggatg	gtggcccaa	aagctgcgtt	cacatoccaa	tccctgctac	420
ctgtgactat	taccttata	agcaaaagag	tgattattcc	cttatgtgac	aaagatgtgg	480
ttaaggatct	tgagaggcag	aacttattct	ggattccgtg	ggttgtctta	taagcaatca	540
catgtgactt	tataagacag	acacacagag	aagaggagga	agaagcaatg	tgaccacag	599

<210> 108
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 108						
gaggggcccta	ctccctcctg	aggctctagg	ggaggggtcca	tcccttgcc	cttcagctt	60
ctgatggcct	catgcattcc	ttggcttggt	gccacatcac	tccaacctct	gtggctcacat	120
tgcttcttcc	tctctctctc	tggtgtgtct	tcttataaag	tcacatgtga	ttgcttataa	180
gacaaaccac	ggaatccaga	ataagttctg	cctctcaaga	tccttaacca	catctttgtc	240
acataaggga	ataatcactc	ttttgctata	taaggtaata	gtcacaggta	gcagggattt	300
ggatgtgaac	gcagcttttg	gggccaccat	ccaaccact	acaccagaaa	ttagcagggtg	360
aatctccacc	ccttccctgt	ttgatgttat	tttgtctctc	tcagtatatt	cctttgggtg	420
ggacacttgt	gtctagaaac	agcaattgtc	ggtttgaatc	tcattccatag	tgtttctccg	480
gccttctttt	ctttctttct	ttcttctttt	ttttttttgt	ttgaagcaga	gtctcgtctc	540
gtttcccgag	ctggagtgc	gtggtgcaat	ctcagctcac	tgcaaccgct	gcctcctgg	599

<210> 109
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 109						
tctaaccgct	gtatttttca	atttacattg	aagacgccat	tgcatggctg	ctatgggaat	60
ttttgtactg	gggacagaag	gcatcatggg	tgaaggacag	catgaacaaa	ggcccagagc	120
cccgtgtctg	cagcccaggc	tcattctgct	ccctcaggat	gctcaccctc	ctctctttag	180
gggttccaaa	gttggcttac	tgatgttata	taaccttgat	ttctatcaac	acctaaaaaa	240
taccagttat	ttccactggc	agccagtcat	aaataacccc	agaatggcaa	gaatgcagcy	300
gtgtctctta	ggcatgtcag	caaaaggcat	gctgactgag	tccaagcaga	gaaacgcctg	360
agctgagaag	cagccctcac	aggacacatg	ggcagcagag	acatgaattc	aaaagatggg	420
aattccctgc	atagccgcac	accatcaccc	actgtgagtg	gcacccaagt	catctcatgt	480
actctcaca	gcagtccctag	aggtagcaaa	cctcatcacc	cccattttac	agtggagaaa	540
gccaaggccc	tccgagcttg	gggagcttgc	ccagagagtc	tctatgtatt	ggaactggg	599

<210> 110
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 110						
agagtgatgt	gtacatttca	agaatgttta	cccaattcag	ggaagaacca	tttgccacta	60
aaagggtccc	ccgcctgtcc	tcattcaccat	gtcaccctgc	agaagggtcaa	gtggccttat	120
gcatgagget	aattccctgc	attcctgato	aaggggcagg	gagggccagg	caaagtccact	180
gctgtcttca	gcagacagtg	gccatgatgg	aattaggacc	agaggcccac	agttgcaaag	240
ataactcaaa	taccctgtag	gcttcttcca	aaggctgaaa	agcacaggct	tggggcttor	300
ttcattggaa	caaaacttta	cgaaaagaaa	cagggtacact	gatgtctagg	catctttaag	360
acaggtaacc	tcaaatgaca	tttacatagc	atgttatggg	ttattgtata	catctcacca	420
gcctgctaaa	aagaaaaagg	gtctctcctg	aaggctgagt	tccagcccca	gctcagctac	480
tgacttgctg	ggtaatcttg	ggcaggtaac	ttactttctc	tgggtcccaa	gttcctcatt	540
tgtaaaataa	gggggtggagt	aggtcatgtc	taaattgggc	cctgattctt	accttgtaa	599

<210> 111
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 111

accttattttt	aaacagctaa	agccacccaa	atctctatctt	ctgttctctc	atacctagag	60
acacaaaaaa	attcacaaaa	aataataaaa	cctagttaga	atgtaaagga	gtcaatcagt	120
tttcaacttgc	agcagattaa	atgggtotaga	atgaaatgag	aggcatggag	aggtctcctg	180
gcccctcaga	cgtgctctcc	aaatgtggag	gccagttctt	tgcactcactc	cacagtgcac	240
ccccacacag	atggcagagt	gtgaaagcgt	attgcaaccc	aaatoagcat	cttccctttr	300
gtacagtattt	taaaaggact	ggccaggtgc	aggtgctcat	gootgtagtc	ccaacacttt	360
tttttttttt	ttgagacaga	gtctcactct	gttgacacag	ctgggattca	gtggtgccat	420
cttggttcac	tgcagtgtcc	gcctcctggg	ctgaagcaat	tctcctgcct	cagcctcccg	480
agtagctggg	attacaggca	cgcatacca	cacctggcta	atttttgtat	ttttagtaga	540
gactggggtt	caccatgttg	gccaggctgg	tcttgaaactc	ctgacctcaa	atgatctac	599

<210> 112
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 112						
atgtgttctg	ctagaagctg	caagacacta	aattgcatgt	acaggccaaa	tacaactgcc	60
cacagccata	tgcctatgaa	aaagatacta	gaaaggatat	caggggtgtt	tccttcttct	120
atccccctcca	tccttttgcac	ttacagatga	ggaaactgag	accaatgggc	tggtcctgct	180
gttgagaacc	tgtccttaca	gtttccgtgt	ggcccacagg	ggcagagtgg	aggagctggg	240
gaccatgcaa	caggaggatc	aggtcatgaa	agacacctgg	agctgggggtg	gagacagctr	300
gttcaacacg	tggtcttcagc	acacacccac	tgagcaaaagg	agcctactca	atgccaggcc	360
ctgaggggaga	gaggcagacc	cgacccagtg	ctcactatca	cggggcacat	gggaggaaga	420
gacgatctct	gcctgaggtg	atcagagagg	goattaagca	ggagtggcat	ttggtatctca	480
aagcaggggtg	aggacatgtg	gcacactgga	gccagtttgt	accagctttt	ggaggctagc	540
tgccttttagg	aatttcacat	gccagtgcct	agacataggt	attattaaaa	ataaatctg	599

<210> 113
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 113						
ttttgagaat	ccattgtagg	aactcagata	ggagaagaca	gggcaggaga	aggtagagga	60
agatacagta	gggattataa	tccttactgt	atagatacag	tgtcttctat	agcagagtga	120
cactgtagga	gatgtggtag	ctgctatctc	ctggggggcca	gcatccttac	tgccctagat	180
tcctctggtc	cttgtccttg	gcccataatg	ctttcaggag	aaaggaggca	accctgggtg	240
gggccactcc	caacctccca	ctgagtgcgc	ctggctacag	actgtgctga	gctggaccay	300
cccaggagaa	aatgcttttg	agccactgga	gagaggggac	cctgtatttt	caaagcatcc	360
ctgagctgga	gacaaacctc	gcagggccaa	aagatccctc	catgcatgac	cagccctctc	420
taggtcaaaa	cccaagtagg	agaagatgag	gcagagaggg	aaggtctggg	catgctgtgc	480
tgattccagg	atccctgcac	acccaocagg	gaacctgtgc	ttctgccctt	caagaacaca	540
cactgcagcc	caattgtgtt	gttactctgc	ctaactcctgc	cattatgttg	aatcctagt	599

<210> 114
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 114						
ggttgggtgc	ttctcaacgg	caggagcaaa	acccactgt	ctctcacagg	acccaatcct	60
gagtagctgc	tcaaccatgt	gtgtccagt	ggatgggtcct	gggtgaactt	agagttaagg	120
ctcgcagatc	acagaggaag	gaagaactta	aagacagcag	gtaaaacacg	ggaagtoaac	180
attccctcct	ccctctgcct	ctgcccacag	cctatgtaat	attccaggta	atgcaacagg	240
actttgtggg	tgacctagat	tttcttccata	ataatcacag	ccatttactc	agcacatccy	300
atgcacccca	cacttcatgt	gtattagctg	taatccctaac	accagtccca	atcccatctt	360
caagatgtgg	ggcctgaggt	tcagagacct	caaattatct	cottacaagg	agaggagcta	420
ggatttgacc	tcaggtgtgt	ttgattccaa	gcccgcatto	tctctgtaaa	acatgcagcc	480
ttgttcagaa	cactgatagt	ctcagcaggg	ttgaggctaa	agcacttccc	tctgctggac	540
gttttttctt	agtgtagagg	gtagaagtag	tgagggtggg	gctcttccct	gacccctgac	599

<210> 115

<211> 599
 <212> DNA
 <213> Homo sapiens

<400> 115
 actgggagac aggagagcca ggggttcaggg ccactgggag agcttccccc agtccctacc 60
 tgtctgcttg cccatctgta aactgccagg cttgcatgca tctgggtgtgt tttcccgagc 120
 ggagtttgac tactgatgtc ctccctgggt cctggggccc gctgtaaaaca ccacttcctc 180
 accctggctc tcagtttgcc ccctacagtg tggctgtcca catagggtgcc cgtctacctg 240
 tcagggttggg tgcttctcaa cggcaggagc aaaaccccac tgtctctcac aggaoccaa 300
 cctgagtagc tgctcaacca tgtgtgtcca gtgggatggg cctgggtgaa cttagagtta 360
 aggctcgagc atcacagagg aaggaagaac ttaaagacag caggtaaaac acgggaagtc 420
 aacattccct cctccctctg cctctgccac cagcctatgt aatattccag gtaatgcaac 480
 aggactttgt ggggtgaacta gattttcttc ataataatca cagccattta ctcagcacat 540
 cccatgcacc ccacacttca tgtgtattag ctgtaatcct aacaccagtc ctaatccca 599

<210> 116
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 116
 ctctttattg aactatata aatcoaaactt tccctaaaag ataaactcca aaagagatag 60
 aaagatggag aactgggaga caggagagcc aggggttcagg gccactggga gagcttcccc 120
 cagtcacctac ctgtctgctt gcccatctgt aaactgccag gcttgcatgc atctgggtgtg 180
 ttttcccgga cggagtttga ctactgatgt cctccttggc tctggggccc cgtctgtaaac 240
 accacttctc caccctggct ctacgtttgc cccctacagt gtggctgtcc acatagggtg 300
 ccgtctacct gtcagggttg gtgtcttctc acggcaggag caaaacccca ctgtctctca 360
 caggaccocaa tctgagtag ctgtctcaac atgtgtgtcc agtgggatgg tctgggtgga 420
 acttagagtt aaggctcgca gatcacagag gaaggaagaa cttaaagaca gcaggtaaaa 480
 caccgggaagt caacattccc tctcctctct gccctctgca ccagcctatg taatattcca 540
 ggtaatgcaa caggactttg tgggtgacct agattttctt cataataatc acagocatt 599

<210> 117
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 117
 ggatctgaaa gagccctggg agacaattag cctaaagctt tcatttcaca gacagggatg 60
 ctgaggccca gggagagaca gggaaactgcc cagatcacag agcaagtcaa gcacagatag 120
 cctagaacac aggccttctg attgccagga cccacgctcc aagctcaagg cctggccttg 180
 aaaagaccac ggtgctgtca taggtgagtt cttgtctctg cccctgaact tccatgtgga 240
 tgtctgtttg aaaccaaaat actctgtaaa caacacttat taacacaagt tccatgtay 300
 tctgctgtgg aaggagatgc gtctttcttc tttgtgaaat attagctcag ataggcatag 360
 aaagaactct atgactctca gtttgcttaa catatttgat ttgctttatg cctacaagtt 420
 catactaage tcttgcatat ctgctggcct ctttattgac actatatcaa tccaacttct 480
 cctaaaagat aaactccaaa agagatagaa agatggagca ctgggagaca ggagagccag 540
 ggttcagggc cactgggaga gcttccccca gtccctacch gtctgcttgc ccactctgta 599

<210> 118
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 118
 gggaaaagtt ccgttctctg ttatttatat gggcagattg aatgagcatt atctccgcaa 60
 ggtcttccca gtactttata gtttgcaaa caaactttta tgtctctgaa ctctaaggat 120
 actctggcaa gcaaagatag tctctcattt tactaattag gaaactgagg ccagagaggg 180
 aaaggcacct gctctgtgca tcatgcgtgc atgcacatgt goctgtgtat gtgtgtttct 240
 gtgtgcaaga aaggccttga atgctcctgc agacctggat cccagtttgt agagaagttk 300
 tcaagttctga tgcttggcgg gcagcgttcc ggccactgca ccattgtatg agtcaactcag 360
 acttagctaa gtacacagca gccaggagcc tgtgtttcag cagctaaaat cagtgggcag 420

cacaaaaatg	taggtgtagc	tccctcgccg	cttccacctt	gccctctctt	tctccctcc	480
cacagggtgg	aactgcctgg	aataagctca	gccagataa	caagtctaca	catgcagcat	540
ccagggaata	agcacagggc	agctctgggg	cacacatgga	gacatgtatc	ttcatacac	599

<210> 119
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 119						
acctcattaa	aacttcttgt	gggagctcct	gtggaaaatg	ctgtggtcag	gaagttaggg	60
tagagtacct	gcccttccct	ctaacaatag	agcatttcctc	caaaaccagt	gtaggctgga	120
ggaggccatg	ggctagctca	ggtctagcct	tggcactggc	aatcactgat	tcacattgaa	180
tatgtacatc	accatcatca	tcaccaccac	ctactcttct	tccaagaaga	caaataataa	240
ccaccactta	tatcaagcag	tcttatatgt	gcagacattc	acaacagccc	agtggaggas	300
gcgctatagt	catgccacat	gacagatgat	gaacctaaag	tacagagcaa	ttaaatgaca	360
gggcctaggg	attgcaacac	aactgcaagt	ggcagaactg	ggatttgaac	caggcattct	420
agctccagag	tccattctat	tagtcatctc	gctacattat	cttccttttg	aatcatgaat	480
cagggtattc	tctggcaatc	aaaccattcc	agattcgggtg	gggaaaagga	tacatcagat	540
agcatgtttc	tgaggctgaa	atcaccaatt	ttgtattaat	agaatagggt	attatctat	599

<210> 120
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 120						
acgcagacac	tggtagagag	aggtgcagag	agccccacct	ttttgcttgg	aattgggtgag	60
agcttgtgct	tacctcatta	aaacttcttg	tgggagctcc	tgtggaaaat	gctgtggtca	120
ggaagtttag	gtagagtacc	tgccttccc	tctaacaata	gagcattcct	ccaaaaccag	180
tgtaggctgg	aggaggccat	gggctagctc	aggtctagcc	ttggcactgg	caatcactga	240
ttcacattga	atatgtacat	caccatcatc	atcaccacca	cctactcttc	ttccaagaar	300
acaaataata	accaccactt	atatcaagca	gtcttatatg	tgcagacatt	cacaacagcc	360
cagtggagga	cgcgctatag	tcatgccaca	tgacagatga	tgaacctaa	gtacagagca	420
attaaatgac	agggcctagg	cattgcaaca	caactgcaag	tggcagaact	gggatttgaa	480
ccaggcattc	tagctccaga	gtccattcta	ttagtcattc	cgctacatta	tcttcctttt	540
gaatcatgaa	tcagggtatt	ctctggcaat	caaaccattc	cagattcgggt	ggggaaaaag	599

<210> 121
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 121						
atcaaactct	ggccttaaga	acgacaacca	atattgtaat	cttcaaaggc	tcagacaggt	60
gaaatgactt	gcctagggtc	actcagcttg	ccagggtcag	aacagaaaat	ggaacccaat	120
tattcatttt	gtctagtcct	aacaaatttc	tgagtcotta	tagtcctcag	ggttccaaac	180
cttctgtcgc	aagacctctg	catccaggca	cagatgacgg	tgggtgtgac	gccagcactg	240
gtagagagag	gtgcagagag	ccccaccttt	ttgcttggaa	ttggtgagag	cttgtgcttm	300
cctcattaaa	acttcttgtg	ggagctcctg	tggaaaatgc	tgtggtcagg	aagttaggggt	360
agagtacctg	cccttccctc	taacaataga	gcattccctc	aaaaccagtg	taggctggag	420
gaggccatgg	gctagctcag	gtctagcctt	ggcactggca	atcactgatt	cacattgaat	480
atgtacatca	ccatcatcat	caocaccacc	tactcttctt	ccaagaagac	aaataataac	540
caccacttat	atcaagcagt	cttatatgtg	cagacattca	caacagccca	gtggaggagc	599

<210> 122
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 122						
gaaagtgaga	ctttttctgat	ctgatcaaat	cctggcctta	agaacgacaa	ccaatattgt	60
aatcttcaaa	ggctcagaca	ggtgaaatga	cttgccctagg	gtcactcago	ttgccagggt	120

cagaacagaa	attggaaccc	aattattcat	tttgtctagt	cctaacaat	ttctgagtc	180
ttatagtcct	cagggttcca	aaccttctgt	cgcaagacct	ctgcatccag	gcacagatga	240
cggtggtggt	gacgocagca	ctggtagaga	gaggtgcaga	gagccccacc	tttttgcttk	300
gaattggtga	gagcttgtgc	ttacctcatt	aaaacttctt	gtgggagctc	ctgtggaaaa	360
tgctgtggtc	aggaagttag	ggtagagtac	ctgcccttcc	ctctaacaat	agagcattcc	420
tccaaaacca	gtgtaggctg	gaggaggcca	tgggtctagct	caggtctagc	cttggcactg	480
gcaatcactg	attcacattg	aatatgtaca	tcaccatcat	catcaccacc	acctactctt	540
cttccaagaa	gacaaataat	aaccaccact	tatatcaagc	agtcttatat	gtgcagaca	599

<210> 123
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 123						
tagcgggtta	gagtcaaagt	ctccatgctg	gatctgtcct	cacacettca	cccaactaag	60
taaatacttt	ttattgacat	cccttttggg	aagtgagact	tttctgatct	gatcaaattcc	120
tggccttaag	aacgacaacc	aatattgtaa	tcttcaaagg	ctcagacagg	tgaatgact	180
tgcctagggt	cactcagctt	gccaggggtca	gaacagaaat	tggaaaccaa	ttattcattt	240
tgtctagtcc	taacaaattt	ctgagtcctt	atagtcctca	gggttccaaa	ccttctgtcr	300
caagacctct	gcattccagge	acagatgacg	gtgggtggtga	cgccagcact	ggtagagaga	360
ggtgcagaga	gccccacctt	tttgcttggg	attgggtgaga	gcttgtgctt	acctcattaa	420
aacttcttgt	gggagctcct	gtggaaaatg	ctgtggtcag	gaagttaggg	tagagtacct	480
gcccttccct	ctaacaatag	agcattcctc	caaaaccagt	gtaggctgga	ggaggccatg	540
ggctagctca	ggtctagcct	tggcactggc	aatcactgat	tcacattgaa	tatgtacat	599

<210> 124
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 124						
ctgtatcact	ttatgtaatc	ttgcacacag	tcacatgaac	catatggcca	ttttatagac	60
aaggaagctg	agacacagag	ggctgagggg	tgtacctagg	gccaccacag	tgttagtaag	120
tggccaaaaga	gggattcaaa	cccaggtctg	cctaacacca	aacccatgtc	cctaactctt	180
gccacagtgc	tattcacact	atgccctgaa	gcttctccag	ttctcactct	ctgggatggg	240
cagcttcaga	acagactcag	cttccatgac	ttgacctttt	gtgtactggc	ttcttgtacy	300
gcgtatgaac	tgcacataaa	attactccca	taaataattt	ttcaatacaa	gatcttatga	360
tggttcttag	cagcttagcg	ggttagagtc	aaagtctcca	tgttggatct	gtcctcacac	420
cttcacccaa	ctaagttaa	actttttatt	gacatccctt	ttggaaagtg	agacttttct	480
gatctgatca	aatcctggcc	ttaagaacga	caaccaatat	tgtaatcttc	aaaggctcag	540
acaggtgaaa	tgacttgcct	agggtcactc	agcttgccag	ggtcagaaca	gaaattgga	599

<210> 125
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 125						
tcccgggatg	tttttttagct	ggtgggaaag	aatcctctcc	tgatagggtca	tggaatggtg	60
aactgagagg	tttttgaagt	catgtcctca	ccccatagga	aacctctgtg	gcagggcaga	120
aggaagccaa	cagtttagaga	tgagaagctg	agaagagaga	gtcttgcctga	tgtctaagtc	180
cctgtccccc	actgccctaa	ggccaacccc	acctctgccc	ttcttgggtta	tttaaaacaa	240
caaaatgact	actttactta	agctagtgtg	agtttgattt	ccgtcactca	aaccaagagr	300
gtcctaaatg	agaccagcat	cttccattta	ttaagctcac	ttatgtgctg	ggagcttttc	360
actgtatcac	tttatgtaat	cttgcacaca	gtcacatgaa	ccatattggc	attttataga	420
caaggaagct	gagacacaga	gggtgagggg	atgtacctag	ggccaccacg	ctgttagtaa	480
gtggccaaaag	agggattcaa	acctaggtct	gcctaacacc	aaacctatgt	ccctaactct	540
tgcacagtg	ctattcacac	tatgccttga	agcttctcca	gttctcactc	tctgggatg	599

<210> 126
 <211> 599
 <212> DNA

<213> Homo sapiens

```
<400> 126
agggcgcttg atgaagacat agttccaaag gagcaatgtg tccttgggta ggcaggcact 60
ttgccttttg ttggcttcag tctctcgtc tgtgaagtgg gccagggtgt tcctgagggtc 120
ccttctaaca ctatgactgt ttgttgtgtg tttttttttt tctaattacc gtgtcccag 180
gctcattgag atctgcaggg ggtcgacaga ggaaatgagg ccagggtctt actgaggcgg 240
gggctatggg ttgggtgaagg gaaagctcca cgcggagccc tccagtgaga ctgccacagy 300
tccttgggtt cctctgctgg gaacgtgccc taagctctgc aaacagcago tgaggatgg 360
ggatttggtc agcattaagc tgtattaagt cgagctgttt ctacaaagac tacatttttg 420
gataaacatg gtaccaaagc cactactaaga caatatagct cttggaagaa ggggcttcac 480
gccacctca gcacctagt cagagaactg ttctcctaac gcaccacac acagacttcc 540
tgaggagaaa ttctgacagc atccccacc tctgttcctg ccgggaacaa gtcccttag 599
```

<210> 127

<211> 599

<212> DNA

<213> Homo sapiens

```
<400> 127
cttgccttct ttaagctgca gaggaatttt gatggaactt tttcatctgt tgaatgggag 60
tggaatgctg tcctgcctat cacaacacagg accaaatcat gagttattaa aaggcaacga 120
tgagtatgtg cttacctctc tcaaatccat tcctccatc tgcctgccc gataccacat 180
accagttctc attcacttca gctaggactg tgctcactga ggtcatctac ataacctcct 240
gcccatcctg gtcaaggagc catctccctt agagcaggaa aggactttag tctagaaatk 300
attttttaggt tcaaggggaa gtagaatgat atatcagaaa taatatgaac ctggatttaa 360
atctcagttt attcattcat tcaccaaca ttottattta gttatttatt tatttaagac 420
aggatcttgc tctgttgtcc aggctggaat gcagtgggtg gatcatggct cattgcagcc 480
tcaaactctt gggtcgaagc catcctotca cctcagcctc ctgagttagc agaactacag 540
tcattgtgca ccacacatag ttaatttttt ttttcttttg tagagaaaga gtttacta 599
```

<210> 128

<211> 599

<212> DNA

<213> Homo sapiens

```
<400> 128
ttttcataga gacaggattt caccatgttt tcaggtgg tcttgaactc ctggggtcaa 60
gagagcctcc ccgcaccggc ctttgggagc cgacaaggaa tcctgtctt ctagtagtct 120
tcaaagccag atccagcttg tctaggttaa ggattcgatg cctccaatga ggcagagaaa 180
atgaacatgc ccgttcoccc aaggccttca agagcctcca ggctcacaga gattaacttg 240
tcctcacccg cctgcctgcc ttttgtgcag atctctgcat tgtcctgaag aaagactccr 300
gcactcgggc tgaactccg tgtgccgatg accctggcct tgtccggga ggcactggaa 360
gggatggcgc ccgtcgcgct cctgaaggcc cggagccacc cgctgtgagc agataaccgg 420
cagcactggg cagcgcggag gcggccccc gaggactcag ccccgggctg ggagtcaagg 480
attcgccctg aagccttgca ggtgccccg tcaccgggag tcggattccc gcgggacgcg 540
gttttcccaa cggctgggac tccttttggg cgagtcccca gcacaatgcg cgctatccc 599
```

<210> 129

<211> 599

<212> DNA

<213> Homo sapiens

```
<400> 129
taggtcatca gggacaaatc atttttaatg gttggaaaat tatttttatt gtagtaggaa 60
ctactagcac ataaatctca ttttatttca cagatacagc ttagcaaaaa ttttaataagc 120
aagttgatat aagaaaaacg ttgaatcagt aatactacaa gttgtgaatc aggttacttg 180
tgtactgggt accaacttgt ctgagtggga tgagatagaa cgcacacaca caacaagtta 240
catgaagtgg gttcactgot tacagagatg cagcaaggga ctgtagaagc gtaggacgcm 300
tttgaggcct gagccctaag gctccggaaa gctgtccagg ggaaaggaaat ctgcactgtg 360
tgtctccac ttgtacggca gcggaggacc ctggaaagca gcctgtcctg ggttttatac 420
cccgaaaaac aagactcgct ggactaaagc gttgaaagac attctgttct ggggaggact 480
ggcacagagc caggctgttc cagccagcca ctccctatct caggatgttg cccttccagc 540
```

atattctaca gttatttcttg agaactacaa ggcagaaagg gggtagaact ggatgagtc 599

<210> 130
<211> 599
<212> DNA
<213> Homo sapiens

<400> 130
tgacagagct aggatgggaa cccaggagtc agaaatcgga acttgtgttc ctaatcactt 60
aagctatatc acaaagaga gaggtggatg attctatgac tgtagggttc taaaatgatg 120
tgaaggaatg aaatgtcttc acatagacaa gaaatgtcta tgtcctaatt cccagatcct 180
gtgaacatta ctttatatgg tgaacaacgt gattcagtta aagatottga gataaggaac 240
ttatcctgta ttacctgggt aggacctgca tcaatcacat gtatttttta aaagagggas 300
gtttgacaca gacagaagac acatagaaga gaaggtgata tgaagacaga ggcagagatt 360
ggagtgatgc agccgcaagc aacggaatac tggcagcaac cagaatctgg aagaggcaag 420
gaatggattc tctgtctgga gcctccggag gaagtacagc cctgctggca ccttgatttg 480
ggacttccgt cctccagaaa agagagaata catttctgta gtttcaagcc accaagtttg 540
tggtaaagtt ttttacagca tccacaggaa actaatacca gtggtaaagt gtactttac 599

<210> 131
<211> 599
<212> DNA
<213> Homo sapiens

<400> 131
cctactttca agtaggtttc ttctttctac ttctctgag tttatttttt tctttctcta 60
tttttagtat cttgaattga aacttttagt ggtcccaact tttatttttt aaatttttct 120
cttttaatat tgaggacaat taaagctatg aatttccctc tgagtattgc tttggcaata 180
tcccatagat cggatatcca ttcatccaac aaattttttt ctagctttat tgaagtatga 240
ttgagaaata aaaattatat atattttggg tatataacat gatgttttga tatatatacr 300
cattggcaaa tgattactac agtaatgcta atagcatatt cattacctta catagttact 360
gtgtgtgtgt gtgtgtatgt tgtgtgcatg tgagataagg cacatgaggc ctactcaaca 420
aatttcaagt atatcataca ttaattattaa ctatagtcac gatgcttaca ttaggtctcc 480
cgtacttatt cttcttataa cagattttgta aacttccacc aatatctccc ctactcccc 540
aggccctggt aaccactggt ctacctctt gtactataag ttcacctttt ttttttttt 599

<210> 132
<211> 599
<212> DNA
<213> Homo sapiens

<400> 132
ttctctgtc gggaaacgctg cctaagctct gcaaacagca gctgaggatg gtggatttgg 60
tcagcattaa gctgtattaa gtcgagctgt ttctacaag actacatttt gggataaaca 120
tggtaccaaa gccacactaa gacaatatag ctcttggaag aaggggcttc atgccacct 180
cagcacctag tgcagagaac tgttctccta acgcaccac atacagactt cctgaggaga 240
aatcctgca gcatccccac cctctgttcc tgcgggaac aagtccttca gccagggar 300
aggcatatga cccaagctga gccaatcaga ggagccatcc tctgggtac tgtgattgg 360
ccagtgtggt catgtgacat agcctggcaa attagagtcc ttttccggg atgtttttta 420
gctggtggga aagaatcctc tctgatagg tcatggaatg gtgaactgag aggttttgg 480
agtcatgtcc tcaccccata ggaaacctct gtggcagggc agaaggaagc caacagttag 540
agatgagaag ctgagaagag agagtcttgc tgatgtctaa gtccctgtcc ccgactgcc 599

<210> 133
<211> 599
<212> DNA
<213> Homo sapiens

<400> 133
gagoctagtt tttcacaat gttgattgat attttcattt accctaacag gtaagaaaaa 60
atgacatata atgaagacat ataatggaac ttactcatt tatcagtga acagaratta 120
ctttcattga atcagaattc aatcagatat tagtttttaa tagaatattt cctcatttgt 180
gggtgctatt cacaatatat aaaagctata gacatgacag actttgaaat ttaatctgca 240

ttattaatat	tttottoacc	cctttctttaa	gttcagagtc	taaactttgc	acaatcaacr	300
aaacattaac	tggagtcctg	atgtgtagca	tttgccatt	tccatagtgt	aaatactccc	360
accgtggcca	gtttcagcta	ccaacatcat	gtccctggat	acagagttrg	gaagagatgt	420
atagtagoac	agagctttgt	agtattttca	ccatacaaat	gcaatagttr	caaacaatct	480
caagagcata	gataatagta	aaacatagt	aaatagttca	gatgtgacaa	gtgttgggta	540
ttacctttgt	ttcaaatatt	atttatcaaa	ttgtaaat	gtcaaat	tttttaata	599

<210> 134
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 134	
aagatttccc	aacaggcaaa
ttttctccag	tggcgtgtca
tataactaatg	ccttcaacaa
ccccaaagaca	cgagcctcac
ctgccagaaa	acaattgtct
gagacctcag	taatcatgcc
ccacttccag	catctgtctg
ccctttccct	ctttgagtag
tttgtcctct	gtggcccca
gagacaacga	ccatgcccct
	aagttttatt
	ttcttctctg
	ctgcagcctt
	aacagggtca
	60
	120
	180
	240
	300
	360
	420
	480
	540
	599

<210> 135
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 135	
ttcgggctga	ggcactgtag
tcaattgcct	gagtatagaa
gaggtagttg	agggtttagg
ggaaggggctc	cctgtctcca
gtcctctcca	gtgccctaag
tgtgtgtgtct	cagcctgttc
ctgatgaaaa	acagttcaga
tgggaaagca	tgttcccagg
cattgtctgt	ataagttccc
tccatagagc	catagaaggg
	gtgtgtgact
	tgcccagat
	atgacagtta
	caagtgtcc
	60
	120
	180
	240
	300
	360
	420
	480
	540
	599

<210> 136
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 136	
taaatattaatt	tttgtatatg
tatccattgt	catggcacc
acccttgtca	aaaattaatt
attccattga	tctatatatc
ttcttaaaaa	aaaaaaaca
tccaatatta	taattagaat
ctggactgag	gttttttcat
ctgtttgagt	gagaggcggt
aatacaaaag	gaatctagaa
agaaaaatta	ggtaggatat
	gccatattat
	aaagttagggc
	catgagttca
	aaaaacaaa
	60
	120
	180
	240
	300
	360
	420
	480
	540
	599

<210> 137
 <211> 599
 <212> DNA
 <213> Homo sapiens

```

<400> 137
acattttgcac attaaagggc taagggtggga agggccagggtt gttcatggggc tacgtgaatg 60
acacacactgg tcaaaccaat cccctgagac ctatgcaaac cagacactgc ctccctccagc 120
ctccctatat ataggactgc ctttgtgctg cacacagggtt ttctctttgt tccaagtctt 180
cctcccttgt ctttgtatga gggagctggg ctcttttttc ttctttcttt cttgccctatt 240
aaactttttt ctctttaaaa ccaaaaaaag aaaaaatact ttttggctag ttccagcacas 300
gcaccaacca gtccgagtggt acacccagcc aatccgaaca aatgccagct gtcaacaaca 360
ggaaacactg tactgtacct gacttagtgc aaaggggcct gggaaatgga gttgctggct 420
gagcaattgt tgtgcagtga tgactcaccg tgtggcacca gatgcacca tctgggtgga 480
cggctagctg gcctgcctc aaatcacata aggtaccaca agcttccatc tcagggtgtc 540
gctttcaacc cctgcatgtc cctccaccg cacctatca tcaaggccag ctagtccac 599

```

```

<210> 138
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 138
ggagcgacat ggtcattaac cacatatttg cacagcttat tcatgttagt tgggctgctc 60
catctcactg agtctaattg gacacgcca caatgctgca caacacattt acatcgacct 120
ggctgtcagc agccaataaa ggactacagg atgtgtttgg ttccaaaggg acttggctct 180
cggcagaagc ttgtttgtag gcacactggg tgtcttggct ttctggcact gtggactaca 240
gcttaactca gagcatatat tcaatcattt ctcaaacatt tgtagctca agcactgtay 300
caggcacagc actggcccta gcagggtcta caaagatgaa ccaggcacca tttctgccac 360
ctcgaggagg tttaacctct gccctccatg atgtgacct gtctagcagg cccctcctg 420
cccacctggg gcatgtgtgc catctaccag cccactccac attctctgag cagggtctctg 480
tgctcttctc tcagcctgga attctctctg ccacctggct ctgtctgaag acgccacctc 540
ctctgtgagg cctctcctga tttctgagac cacacaaatc tctccctggg ctgcgtttt 599

```

```

<210> 139
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 139
cccaaggcct tcaagagcct ccaggctcac agagattaac ttgtcctcac ccgcctgcct 60
gccttttgtg cagatctctg cattgtcctg aagaaagaat ccggcactcg ggctgaaact 120
ccgtgtgccg atgaccttg ccttgtcccg ggaggcactg gaagggatgg cgcctgcgc 180
gctcctgaag gcccgagacc acccgctgtg agcagataac ccgcagcact gggcagcgcg 240
gaggcggccc cagcaggact cagccccggg ctgggagtca gggattcgcc ctgaagcctk 300
gcaggtgccc ccgtcaccgg gcgtcggatt cccgcgggac ggcgttttcc ccacggctgg 360
gcctcccttt gggcgagtc ccagcacaaat gcgcgtcatc ccgcagacct gcccggcaga 420
ggcggcgggg caggagcgcg cttggcttcc tgtctcgctg aatggcttga atgggcgctg 480
ggcccgttcc taatccccta gcggctgact gtcccggcag gggcggaggga gggcgggggg 540
gcttgacagc ctggcggtct ctcgcaggct gcaggcagtg gggcccgcct gttctagtt 599

```

```

<210> 140
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 140
ctgaatccta ttctgtctcc acagaataca aatgtttcac tgaacacagt ttgtgaagtg 60
ctgccctgaa aaatatcagc tcttgtcctg acaacctgag agcacaggat ggaggccgtg 120
aagggaagcct ggagacctct gtgcagagcc tctttgttgt acatgtgagg ttctgagacc 180
cagagagtag cagggtgtct cagggtgcac agccaaggag gggaggcacc atggccaaga 240
acggcctttt cactccaggc aggttggcag ggctggcatt ttggaaagct ctccagcagay 300
agaattcaca caccttctct tagaggccgc acaggattca agagatggaa actgctggaa 360
ggagcactgt cttattgaaa gtaatctcaa gatcccagga ccacaaagct agatgtttca 420
catcagctca attcccccaa cacacaggcc tagagaggag aaggacttat tcaaggccac 480
aaagcaagtt oaaagcacag ctggaactag aatccaagtg tctgcccc tgcctccagc 540
tccaaggctc tgtctggcct ttctgcagc tggtgatatg tctgtctgtc ttctcagcc 599

```

<210> 141
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 141
 ggacatgctc caatgacacc catggctgct tctcataggt gcacccctctg cctctctgga 60
 gcctgccgct ggctctatcg aaaggggcca gtgggaasta gtcatggggt cctactctga 120
 tctgagcagc cagagggagt gacatgagct gagagttgtg aataaacccc tgtactttgt 180
 acttacttac tcaacttgac aaacattccc catggacttg cctctgtga gaotgoactg 240
 ggaactgggg attctgtagt gaatcaggca ctatgtttgc tcttcagaat ctagtaagak 300
 ttgggtcac atagccaaaa tgcaaagcag agcatggcag cgccctggaa gatgaattcc 360
 agattcctgc tgctgtgtcc agaatcagca tagcccaaca atgctagggtg accttgggtca 420
 agttgcttaa tctctctacc ctgagtttcc atccttacc ttctttctca aagagctact 480
 ctaagaagaa aataagacaa ttggcctgga catactttgg agtcaaagct gaatagggag 540
 agacgattgc tagtgtttca tagtgtcatc agtaacatag acaccattta ttcagtatc 599

<210> 142
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 142
 atttatatgg gcagattgaa tgagcattat ctccgcaagg tcttcccagt actttatagt 60
 ttgcaaagca aactttaatg tctctgaact ctaaggatac tctggcaagc aaagatatgc 120
 tctcatttta ctaattagga aactgaggcc agagagggaa aggcacctgc tctgtgcac 180
 atgctgcat gcacatgtgc ctgtgtatgt gtgtttctgt gtgcaagaaa ggcccttgaat 240
 gctcctgcag acctggatcc cagttgtgag agaagttgtc agttctgatg ctggcggggy 300
 agcgttccgg cccactgccc atgtatggag tcaactcagac ttagctaagt acacagcagc 360
 caggagcctg tgtttcagca gctaaaatca gtgggcagca caaaaatgta ggtgtagctc 420
 cctcgccgct tcacacctgc cctcctctc tccctccca cagggtggaa ctgctggaa 480
 taagctcagc ccagataaca agtctacaca tgcagcatcc agggaataag cacagggcag 540
 ctctggggca cacatggaga catgtatctt catacacacg cacatatgta cacacaaat 599

<210> 143
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 143
 atggaaactt gcttatgatg tgttctgcta gaagctgcaa gacactaaat tgcattgaca 60
 ggccaaatac aactgcccac agccatatgc ctatgaaaaa gatactagaa aggatatcag 120
 ggtgttttcc ttctttcatc cctccatcc tttgcattta cagatgagga aactgagacc 180
 aatgggctgt tctgtctgtt gagaacctgt cctacagtt tccgtgtggc ccacaggggc 240
 agagtggagg agctggtgac catgcaacag gaggatcagg tcatgaaaga cacctggagm 300
 tgggggtggag acagctagt caacacgtgg cttcagcaca caccactga gcaaaggagc 360
 ctactcaatg ccaggccctg agggagagag gcagacccga cccagtgtc actatcacgg 420
 ggcacatggg aggaagagac gatctctgcc tgaggtgatc agagagggca ttaagcagga 480
 gtggcatttg gatctcaaag cagggtgagg acatgtggca cactggagcc agtttgtacc 540
 agottttggg ggctagctgc ttttaggaat ttcacatgcc agtgcttaga cataggtat 599

<210> 144
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 144
 taataattaa ttaatttaat taattatggc aaattatact gggtttccat ccaaagtttc 60
 tttttagagt aaacgtacat tttttaaaaa tgagttagtt taaagaaaaa tattgattac 120
 tctcacaagt ggtttgtaga tatgacaaa attgtaaagg cagaatcaaa agactaaaat 180
 tatggtgaac gtccctggaa caatgaaaag aacatgggct ttggaatcag gccaggggtt 240
 gaatccagtt cctccaattg ttagcagttg gacctatta ctcaagctct ctgagattgy 300
 ttctcctca ttacttttta atggagatca ttaaccaaaac ctcatgtttg tgggggtgat 360

ggcagtggtga	aggggatggag	tgggaggagg	tgcattggggg	tgtgagggggg	ggggcggtgg	420
ggaggtgtga	ggattatggc	ttactttcac	cactgctgtt	cttacattcc	tctttcttat	480
tgttgccct	gggtcttgac	ccagtttgta	aattgggggtc	caatccaacc	caattcccag	540
atgcctggcc	aggctccggg	gacagaaccc	aataggacca	gcttcctgcc	ctccaggag	599

<210> 145
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 145						
ttgctctgtc	acccaggctg	gagtgcagtg	gcatgatctc	ggctcactgc	aagctccgcc	60
tcccgggttc	acgccattct	cctgcctcag	cctcccaggt	agctgggact	acagtccgct	120
gccaccatgc	ccggctaagt	ttttgtattt	tttttagtag	agacggagtt	tcactgtgtt	180
agctaagata	gcctcgatct	cctgcctctg	agaccagccc	gcttcgcgct	cccaaagtgc	240
tgggattaca	ggcgtgagcc	actgcgcccc	gccaaactgct	agtggatttt	acaacaaacr	300
gcagcactga	agttaaagg	gtatggaatt	tacagtagag	tattgcatgt	tactattttt	360
aaattgtggg	ctacacattc	tttatattag	gaaaatttgt	aattaacaaa	tacatatatt	420
aacttgtata	cttatattaa	cttatatata	tatatatgca	tacatttttg	agaatccatt	480
gtaggaaatc	agataggaga	agacagggca	ggagaaggta	gaggaagata	cagttagggat	540
tataatccct	actgtataga	tacagtgtct	tctatagcag	agtgcactg	taggagatg	599

<210> 146
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 146						
tatctaaaca	acatttgggt	gttctaaagt	aaccaccagg	taacacaatg	gtttgctcct	60
atactaccta	tgaaaggaat	gacgaaagga	ataattaggt	ttgtatagaa	tattgtgcat	120
tatagtcata	actgctgtga	gaactcccaa	atcaggggtg	tgtgcagggt	agggcagagt	180
tttgggagag	gcgaactgtt	ctgtacaaaa	aggagaagaa	tcataatgct	gaggggaggg	240
gagggacctg	ggagagggga	gtgagcagca	agcaggggtg	ggcaccacct	gaatgaaggw	300
cagaagggtga	gagcccttag	gggcacagca	gcacaaaaga	ctttgggaga	aaaggaatta	360
ataagaggga	atttttaagt	tgtttgtcat	ggtgtgtgct	atgggcctcc	ttccctcttg	420
tcactcttac	actgtcttta	gaaaagtcat	tctttttttg	tgaaagggga	ttctccaggg	480
agtattgaag	gatgcagggg	tgaattgttt	gtttctgaaa	tggagtcttg	ctctgtcact	540
caggctggag	tgcagtgggtg	tgatctcagc	tcactgcaac	cttcacctct	tgggttcaa	599

<210> 147
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 147						
gcaaagcgtg	ccattgaggg	tgtgctgtca	gaggatcctc	ggtctgtgta	ccgccggaag	60
ctttgccagg	accgcctttt	ctactttact	gtagacatag	cgcattgtac	ttgctggttt	120
ggtgatggct	ttgcagaggt	gctgaggatc	aagccggctt	ctgagcctgt	tcatatgact	180
ggccctgtgg	ggtccttgg	gtctctagg	tcttaaggag	cctccctcat	gtctttaagg	240
tagcatcatt	gatcttttga	tgtggctttt	ggattttctg	aacaagctaa	tgttgtgtcr	300
agaagcaaca	ctttgtgata	tcattggctt	gattgatttg	ggctgttcaa	aatgtttatt	360
tgaaaaacgt	atacattaat	aaacttaaca	aagagatata	aaatacagag	aaatcaccaa	420
atgctttttg	atctgttgat	attaaagaat	caaaagggtga	tgtgtgtctg	ataatttctg	480
aaagaagctg	ttcttgggtg	acttgataaa	attagacaaa	gttcattcca	gcagagactt	540
tctagttag	gggatctatt	cagtaattca	tattgggttt	cctgtctgtc	tggaaaagc	599

<210> 148
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 148						
agtggactga	ggagggctga	gcggaaggat	atgaggtcaa	agaggcacta	gaaaagggac	60

gaggtcacct	aaggggtttta	taggccattg	taaggacttg	agttttgatc	ttgggagaag	120
taaaaggcag	aggaacttga	tgtccgtatc	cccagagagc	aggggacccat	ctctggggtc	180
agatcactac	ctgtgtgatt	tctgggatgt	cacacctcag	tgacatgcaa	aggcaagctg	240
gagttcctta	ttgagacaat	gaagactttc	attctatata	cagaaaataa	aggcttacam	300
aaccaaaagat	actagatttt	cccctgcttt	actagcaggg	agagaatgaa	gaggctaggg	360
gggtattttg	ctttgataat	ccaacctgaa	ggagggtttt	ctgatgggaa	aaagaagtct	420
aaaagttggg	actggagata	catgccaaact	gactctgaga	tttccccatt	tcttctctgtc	480
agagccacag	ccagcccaca	ctgttgccct	ttgcaaaggga	aaagccaccc	cttctctctgg	540
gtggaggcag	ccacctgcca	gggcccagga	actgggtttta	gccccaacat	gcaaaacttc	599

<210> 149
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 149						
acctcagccc	tccctccctt	cttgtctttc	agcatcaatg	cagagaaaag	aggagcagca	60
aagagggtgc	atttccagggt	tagtgtctta	gtccgttttg	gctgcaataa	cagaatacca	120
taggcccata	gactagggtg	cttaaattga	tctctcacac	tgctgaagg	tgcaaatgcc	180
aaaatcagg	cactggcaga	ttcagtatcc	ggtgacgccc	actatgtcct	cacatggtaa	240
aacagacaat	ggggttctca	ggggtctctt	ttattaggcc	actaattcca	ctcatgaags	300
ctcctcccc	acaatctact	cacctcccaa	aagcctcgct	tcctaatact	gttggaccgg	360
ggattaggat	ttcaacacat	gaactagggg	gatataaaca	ttcagtcaat	agtagaaggt	420
tctgctgtt	cagccagaaa	ctctcaagg	ctaaacttaa	tctctccttt	cccatgagga	480
cccgggtcca	cagcctctga	ggctgtgtca	gcttctagag	cccattactc	tcagaagata	540
aagccccccag	cagggacact	cataaaaaag	aatccgaatc	tggagtgtct	aggagattg	599

<210> 150
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 150						
caaataat	acaggaggtc	ctctgaggct	gtataaatat	ccagtttctt	cttaaaat	60
tgtccaccaa	ttttatcata	gtcagtggat	attgcaatta	ctgttatagt	gttctaattg	120
tgatcttctg	ttttcttagt	ttctcttata	tttactat	gaaattcttc	tataaggaaa	180
atttatctct	tcttccccgt	ttatttat	attcaatcca	tttttat	tatcaatatg	240
gactcatgga	tatttat	attcttcagg	ttataatgca	ctaccacatt	tattaaccty	300
gttgtcaaac	tttagccact	gggagctctt	tcagggttgac	ttttacgtcc	ttttgtcatg	360
ccctatcttt	attttttcaa	tatactttct	tacttgctgg	cactccttta	ggatttagga	420
ccatcttgta	tttat	ttgactcagc	totagaacta	cccatttctc	caagggggccc	480
tggttccttt	tattggagaa	tggat	gaaccaagat	ttgggggctg	agagtgccca	540
ttgtactctg	ggtgtcactg	cttctaggcc	ttctcagcag	acagagcaag	gaaatatat	599

<210> 151
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 151						
cattotgctg	tttccatctc	tgctccatgt	gctaocccctt	tggctaagg	ggaaatatgt	60
ttttaa	caa	ggctcatttt	ctgcttcaca	cagtctt	tctctcttga	120
ggaa	acatgctcct	gagctacact	ggaaaaat	gaagtgcct	tctccataat	180
tagccagcat	ccctgccatc	tggaccctct	catacctcac	agggatttcc	ttgtccacat	240
ggaa	ctgatccaag	agtccagctc	ctgctgactg	aactctgcc	tctgttccgm	300
agcttg	acctgctcct	gtccaaccag	gcacccctct	gtgggcctgt	gcttttagtcc	360
ttttcactc	tagaccctgg	tactactgag	gtggcttg	tggctctaaa	tttgctagtc	420
tcttattttg	ataaaggctg	caagtagcaa	atatcottat	ccttgaaaa	aagggcatct	480
aggccctg	cttctt	tgtttat	tgcattgact	atagaaaact	tggaaacat	540
acttacagag	aagaaataa	gaatttccat	ccaaggcttt	tttaaagggc	caagcactg	599

<210> 152
 <211> 599

<212> DNA
<213> Homo sapiens

<400> 152
tcgatcaaag taatgagaat gaattacagt gagcccttaa tgacaagaga aatctagctt 60
cttagtagtt atatgaattt cagcaaacct acttggtttt gctgagtctg tttcctaaat 120
actaaaaaaa ggtggattat cgtcctgccc ggggagctgt tgctaggatt aactgagaag 180
cagtgtacac aaaagtccca tgcatagcac ttggcataag gatgggtgctt aataaatatt 240
agacctgact cttggtagt c atagctcttc cctgctgcac caggaaggca tagcacctcy 300
agctggttca gaaagcagaa aggaacctgg gcagggggccc gttactgggc ctagagcttc 360
ctgtacacct gacacattcc cctcctctgt ttttaccatg tggagactaa caggatctcc 420
tcccttaacc catttttcacc tatttgcctc tccctctccc cttgtctcaa taatctcagc 480
tgcctagatg gtatttttta gtacatgtga cactattttc aacataacat acatttgcaa 540
agcatctgct atgttctaaa gatggacccc aggtcctcct ctccattcct atcatcoag 599

<210> 153
<211> 599
<212> DNA
<213> Homo sapiens

<400> 153
gaggggctg gggctctctgt gtttaagaca gcactcccca gcgccagccc tggcagagga 60
agagtggagg tatggggagg gaggcctcaa acagaatcta gagatcatat tctagcccca 120
acctggccac tgaatgggat ttgtctccct ctgtcacttc cctctgagc ctocagttcc 180
tcaactgaaa ctccgaggcc caagctaagt gagcctgcag gttgtttcag ctgtacaaat 240
ctgcatgtgg ttcaaccgtga gcttaaccag caataggaat actaattgta tttcatgocs 300
ttactcccag ttaccctctg aaggagtagg taagggtttg ggctagtaga aaatgtcaga 360
gctatgttta ggctgatgga attgaaaagg atagaccagt agcatggggc cagatgagtg 420
ctgcactttc agtgaaggag gtgtcttcca gaaattgcca caggatatata cataagttgg 480
ccagactagt cagtcatcta gtagcattac agatgcagggt tagtacatac atctgccatt 540
gatggccatt tactgagagg aatttagtct tcaacttccc tgaaaaataa cctataatc 599

<210> 154
<211> 599
<212> DNA
<213> Homo sapiens

<400> 154
tggtagaata aaagaataaa ataaaaacaaa ataaaaataa aaaaataaaa gaataactaa 60
ggaaaagtgg ttaacaccag ggaagctctc taoagaaaat agggactttg gaatgtaatt 120
gccacagagt tgaatattcc tccttagaac agagottggt gggggattta agttggttca 180
cttttctgaa ggattagtat gagagatccc catgggaaat caagtgaatc caagattaat 240
ctgctttctg aatgtaaaga ctttggatgg aaaattaggc tgcccggtg tggtgtgtgtr 300
tgtgtgtgtg tagactgtct tggggccaat tgctgggatg ggtagggaca tatttcaaaa 360
tgagcaggga ccacagagtg aggaacatg ttcaaattct ggctctgcca ttaccttct 420
gtgccatctg gcagggtggg ccagtaatca atcatctttg ggtttccagt ttccctgattc 480
caagatgagg gggtagaatc ogaagatctc caaggccttg atgagtgcta ccagctctgca 540
aattcccaag ccaagttctt caatgaatca aatttctctc agtagccatt tctacccaa 599

<210> 155
<211> 599
<212> DNA
<213> Homo sapiens

<400> 155
tgtttttatt tctccctggg ttccctgggg ctttacttct taatgtggtc actttgaaca 60
tcattggcat caattcacaa cagggaaaca tctgtgagaa gaaacacacc aagcggggaa 120
tctttctgga acaaggatgc agcaadacag aaattagcct gatcctgttg ccttaagctg 180
cattcatgta gtaatccagg aaatgcagtc tcttttttct gtgattggcc agacaaatcc 240
tccttctgaa gaaacttaga tttcagcctc cccgaaccaa aagaaaaaaa agaattgggy 300
aaaaacatca tagtggagca tctatcaaca aaatatgtgc acggagaggt ttcaaaatca 360
tcttgaagac tcacaagaat tgtctttcca aaagcagtaa ggagtagaag tgtacaactg 420
attcaactaa ggacagggcc atcagctctg gatgccaaaa tcttcaccac tcacagacca 480

gcaagggcag	gtttccccc	tggcatccc	tagatcctga	atatggccc	gagggtcttta	540
gcttcccgtt	gcagcttttt	ggaagccgga	ctctctctc	tggctgtccc	tgatcctcc	599

<210> 156
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 156						
ttagggtaaa	taataccaga	aaagcaacag	gtacaaccca	aatcaatcaa	gatgtgtgcc	60
agcaccttca	gttataaaca	ctttcttctt	tttgcccctt	aatttcagag	ctatgaaaat	120
ttccttccct	agaagaaata	gttcccaaga	cagccccaact	gtaatatgcc	agaagaaatg	180
tcaaaatcgc	tactgtggcc	aaatcttgtc	aaaatggaca	cactacaacc	atcataccat	240
gttggttctt	ttgtaaagca	aaggtgacag	gtgacaagca	ctaagaggca	cactgagaar	300
aagtatgggc	tttggtttgt	gctgcagcag	tttgccaagc	atgtgaacat	gggcaagcta	360
cttaaggttt	ctgagttcta	aatctctctt	gtggaaattg	tgcattgtag	tatctacatt	420
acagtactgt	actgtagact	ggaaagaaat	attaatatat	agtgtctggc	acaaactagg	480
gttcaatgaa	tggtaatat	attaatat	taattgaatg	ctgtatttta	aatttaacat	540
taaaatttta	tttaaaaatt	agctgtgaca	gatttatatt	tccaaaaatg	gctgcagca	599

<210> 157
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 157						
agcctagcag	gttgccctact	ggttgttatt	ttgatttttt	ttattagatt	tgattaagcc	60
aggccaggcc	tttctgggga	gcaggaaggt	tctggtggaa	gacacagaga	ggactctggc	120
tgggtccctt	ccctcaggag	ggccagccaa	gtcagagaca	gacgccatca	tagagaaagc	180
tgacatgcca	tcccgggggc	acactgaagt	gaagggcact	gaggaggggg	cgatgatttc	240
aaaacagagg	gcttccctggg	agctagccct	tcagcagggt	tcagcaaggc	agggggcgacr	300
gggtaggtat	tccctggctcg	gagcatcatt	ttaggcagca	gggcccaccc	atcagtatgt	360
cctatcagct	gctggtgtct	ttttccctcc	atgaagcctc	gtttccacca	actgctaatt	420
atctcatctt	cttcagaggc	tctgattgtc	atctacaccc	cctggctgag	ttcctctgaa	480
acgtgctagg	ggccacctaa	gctcctcttc	tccagtttgc	cctgggtcact	tgcccagtg	540
gtggtttccc	aggcttccct	cttctgctct	gtagtgtctc	gatgaagaaa	accatgtct	599

<210> 158
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 158						
ctctgaatca	ccaagcgaga	cctattttaa	aggtgaccag	gtcgtgagat	atgatctcag	60
cacggaccct	tctcccggat	gacaagagag	caggtagtta	ggcgggtact	ccgtgtccgc	120
gcatacccag	actccgccc	gcgccgggc	aggccacccc	gagcccctta	actgcgcagg	180
cgctctcact	cagaaaggcc	gctgggtgcg	gggagcgag	aggcgtgca	gggagggtcg	240
ctcgctcgg	cgtgcagtgc	gcgtgcgtgg	agctgggagc	taggtcctcg	gagtgggccc	300
gagatggcgg	cggccgacgg	ggctttgccg	gaggcggcgg	ctttagagca	acccgcggag	360
ctgcctgcct	cgggtgcggc	gagtatcgag	cggaaagcgg	agcgggcaact	gatgctgcgc	420
caggcccgcc	tggctgccc	gccctactcg	gcgacggcgg	ctgaggctac	tggaggtttg	480
ggcgcgctcc	gcgttttccc	cttccctctc	ccgcctccc	cgggtcccag	actggctcgt	540
gcaagccgag	tcccggggcc	cgggggtcgc	gtcaactccg	ctggcgatg	tgtgcagat	599

<210> 159
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 159						
atgagtcctc	tacgtcagca	ctcctcgcca	tgcgcgcttc	ttccgtgagc	atcttaacag	60
gtctctgctg	gctcttcaga	tttctgtgtg	ttttccaca	cctagggagt	gtgcaaggag	120
gtgttccagc	tcaaggggtg	catccacaag	tacctggaag	agtttcctga	tggcttttac	180

aaaggggaagt	tgttttgtttt	tgatgaacgc	tatgctctgt	cctacaacag	tgatgtgggtg	240
tcaggtaggt	cagcacaggc	tcagagccca	aactgaaatg	aagcacattg	tcagttcacy	300
attctagaaa	aatgacacag	ggaagacagg	ccagtgtctca	ttactgagca	ctgaataagc	360
agggaaaata	agtacattgt	gccaccattt	tcccagctgt	ggagctgaga	gaaccctagc	420
ccaggagtca	ggaggcctgg	gttgggatcc	tggcttcacc	attgctagct	ggacaagccc	480
atracatgg	ggatcatctc	acctgccctg	cctgcctgtc	tacctgcaa	gagctgtact	540
actgggctaa	ttcagggctc	ttaacctgga	attggtacat	agatttcagg	gattctgtg	599

<210> 160
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 160						
gcatacattg	tttcattgtg	cttagcagaa	attgcttctt	tttttttttt	ttaactgaag	60
gtttgtggca	accctgcaac	aagcaagtct	actggcacca	tttttccaat	ggcatctgct	120
tgcttcttgt	ctctgtgtca	catactggta	attttttaca	taaaacaagc	ttttccatta	180
ttaattgctg	caatcccata	ataaaaacttt	aaaaaataag	aagatgcttt	ctatgtatga	240
gcaaagaaag	tgtttttttg	agatggaatc	aactccttgt	gaacactgct	gaatgacaay	300
gaaggattta	gaatatcata	gaaacttagc	taataaagca	gtggcagggt	ttgggaagat	360
taattccaac	tctgaaagaa	gttctactgt	gggtaaaatg	ctgtatcaaa	cagcaagcat	420
cacatgcttc	agagaaatct	attgtgagag	gaaaagtcaa	tctaggcaac	aaattttatt	480
gttgtctatt	tttgaactcc	ctgacccaaa	tagtgaagga	tgtatctaca	tatgtatagg	540
tacatatgta	tttacagaca	tacaagtaca	tacatgtaat	acacacacac	aacacactt	599

<210> 161
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 161						
acctgacacc	acatcactgt	tgtaggacag	agcatagcgt	tcatcaaaaa	caaacaactt	60
ccctttgtta	aagccatcag	gaaactcttc	caggtaacttg	tggatgccac	cottgagctg	120
gaacacctcc	ttgcacactc	cctagggtgtg	gaaaaacaac	aggaaatctg	aagagccagc	180
agagacctgt	taagatgctc	acggaagaac	ggcgcatggc	gaggagtgtc	gacgtagagg	240
actcatggcc	gctgctatca	gtcaggggct	cctggctccc	actgcggggac	actgaggaay	300
tgctgaccaa	gggggtcaagg	caccaacttg	ccagatcttg	cctcctaggg	ggatgggtga	360
tgacagcagg	cagggccttc	acctctetaga	tcttggaag	cccaactatt	tttgcctgcc	420
cctaaatata	ggaagacacc	tgttgggaca	tgtaatgtta	ctgaatttgc	tcttctcagg	480
atcaagcaaa	aggatcagga	aaaggagat	gttaactaat	ctctcccttt	tacatctgat	540
gagtcctctat	gactgttaag	tgtttttcat	atcttgagat	taaagaacct	cagattttg	599

<210> 162
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 162						
atgcttgtgg	agttaaataa	attgaatgaa	taatactgag	taagactact	tgcatatctc	60
tttagcactg	acaactcata	gtccaaagct	gcacctaca	accgccttgt	ctctgcttgt	120
gtgacttttg	tgatggggaa	cactccactt	gagaacaaac	aaccattctt	attgttgtct	180
agcattggcc	attattttatt	gtaataataa	caataacaat	agcaaacact	tatatggtac	240
ttactataat	actaggcagt	ttttaagcat	attcaccagt	ctcagttag	agatgagacr	300
actaaagcac	agagatgcta	agcaacttgt	tcaagatcat	acagctaata	agtacagag	360
ctgggttcag	gcaggcacag	ccagcccca	goattaatag	tctcaaccac	caaattataa	420
gtctctaaac	tggaacaagt	ctccctctta	ccctottact	tctccacca	gagattgtcc	480
tgcatgggtt	agcacagagc	tggaatcaga	ccaggttctt	gccagtaccc	tacgtggcta	540
accagggtggc	ttgaaacaga	gagggcatct	ctgcctcaag	cttagtcttg	gagttattg	599

<210> 163
 <211> 599
 <212> DNA
 <213> Homo sapiens

```

<400> 163
attaacggta ttttataaaa ttttcaacta caaccactag tcaacotaaa accttagtgc 60
ataaagaact gaaccacaaa agggtttcat gctgccagca ttttgccctt tgggtttccoc 120
tgacagagcac aggtcatcaa tagaacacat ccagttcaaa ggcattggact ccaccgccac 180
acactagaca ccactccggc acttgggaat gatgggcaca gtcagggtccg caagcctcct 240
cttccctcact ggaaagggaat ggagataaga tataaggcac ttttccctgt agaccagggr 300
ccagcactgt tgctgagaaa gcactgtgaa acctcgcaat aattgggttg ttaacagagt 360
ctgaagtctg ttgttttgaa aggacagtat gtgtgagttg tacaacagcc ctccagtctg 420
tcagtgttca ttgatgaggg tctgtggtag tggagattca ttcataagata tctgctaagt 480
ggctgaccac acagtccac gttataagtc ggctattttt tttgcttaca gaagctccag 540
ttgaagatct ttactccggt gttcagataa gagttaaaag tttagtcagr cttcttaat 599

```

```

<210> 164
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 164
taccacatt ctgtagggtt gttgtgaaga tcaaagatga tggatgtaag atgtgtatct 60
cagagcctgg tccacagtac actctcaaca catgtaacat gtaagatgtt gttattagca 120
tcctottaga aagtcagagc tgaaagagtt gcccgcaga taaaatgatt gaaccacaga 180
agttacagag aaacagtaac tccataagaa taaagacaaa ctagaattgc ctagagagta 240
atgtgaatgg tgaggaaatt caaaagccgc attgaatggg ggtgaatgaa gaaaactggr 300
aattttaacc tggagaagga gagcttagtg gtccatgaga tctgtgcaac agatgtcctg 360
agtgaagcag agaacagagc taagcccaac aaacaggact tacggggagc tgaottctac 420
cggatataag gaagaatgtt ctcatgtcct aagaatggaa gtgatgatgt tggtaaggag 480
tgtgtccccc atcatgagag ggactcaatc agaactggaa gagcacgtag tgggaagcgt 540
gaagaaggaa ggtgagcgtg gtagaggggtg tgaactttag ggaccttgga ggtccctca 599

```

```

<210> 165
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 165
actgtactat ttcttataac tgcttgrgaa tcractatga tgtcaaaata aaacttttaa 60
ttaaaaagaa aaaaagcaaaa ataacgattt gttgtttatc tgaaagtcaa attaaactgg 120
gcatcctgta ttttatcagg catctctggg agottgttgg agatgcagat tccctggccc 180
cacttcagac ccactacatc agaactctgt ttgtaacact aaagtatgag aagctctgat 240
tagtggctcc tgggtgtgtt agtccatttt gcattgctat ataggaatat gtgaggctgr 300
gtatttacaa agaaaagacg tttgtttggc tcacagttct gcaggaggca aaagaagcct 360
ggcaccagca tctgcttctg gtaaggactg caggggagct tccaatcatg cagacagtga 420
aggggggac aggtgtgccg caggccacgg ggaggtgtcc cagactgttt tcaacaatca 480
gatctcaggt gaactcatta tcacaggag ggcatcaagc cattcatgag ctgcccccat 540
gaccgaaca cctcccatga ggccccacct ccaacactgg ggatcacatt tccacatga 599

```

```

<210> 166
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 166
agctgtattc attcaaaagc atagtctggg gtcaaaatcc tacacattcc aggagctcct 60
gttattggta atgactgcaag atgctgagaa tcaggctttg tgatctgtgc tgcgatcta 120
agagggcagg gacagctagt agaaaaatgt ccaatagcac tagtagttaa aacaaaaagc 180
acataaaaca acaataaagt ctatgatttg catatatatt ctgaaatgaa aaatctctat 240
gctggtggtg atgacataaa actgaaaaact acacaattgt ttcaaaggaa aggtaaagcr 300
aattttgatt acataaaata tgacgtcttc tgcattccat agtggaatgt gtggaaacta 360
tacaggaaca tggaaacttg cttatgatgt gttctgctag aagctgcaag acactaaatt 420
gcatgtacag gccaaataca actgcccaca gccatattgc tatgaaaaag ataactagaaa 480
ggatatcagg gtgttttccct tctttcatcc cctccatcct ttgcatttac agatgaggaa 540
actgagacca atgggctgtt cctgctgttg agaacctgtc cctacagttt cctgtgtggc 599

```

<210> 167
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 167
 taagtatgaa atgacaaatg agagtgagcg tctgaacaga atcagtacag cgtgtgaggg 60
 aggcacttgg ggtagggtctg ggggagacca gggaagagct atggagaaga gcctaggagc 120
 agaagagtag cagttagaaa gtgaggagaa ggtccagggc ttgggagcgg caggaggagc 180
 gggtccgggc tggggagggc agggccctct gaacggagtg gcctggcagg cttgctatct 240
 gctgatggga ggagcctgga gggcaagctc aggtgtgccc tctaactca ggtgtgacay 300
 ggggtgagatg catcactcat gtattcacct aactgtctac taagccagtg cacattattg 360
 aactcctact gtatactagg atgaacagga gccagtcctt gcctttggga ggcccaggag 420
 gtgatgagga ggacagacga gaaacatgta tttttttttt aaccttaaaa tcttttatca 480
 cttcaacatg tagatttcaa cattaaaagc gtccctgctg ggcaacaago agagtgcaca 540
 gggtccctggc agggctaagt tcttggcgca tagcctacag ggttgtaggt cagaggctg 599

<210> 168
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 168
 gagctgggag ctaggtcctc ggagtgggce agagatggcg gcggccgacg gggctttgcc 60
 ggaggcggcg gcttttagagc aaccgcggga gctgcctgcc tcggtgcggg cgagtatcga 120
 gcggaagcgg cagcgggcac tgatgctgcg ccaggcccggt ctggctgccg ggccctactc 180
 ggogacggcg gctgaggcta ctggaggttt gggccggctc cgcgctttcc ccttcctct 240
 cccgcctcc ccggtcccca gactggctcg tgcaagccga gtcccggggc ccgggggtcs 300
 cgtcaactcc gctggcgtat gtgtgcagat tctcccagag tcggagaggg aatccgcccc 360
 gccagccgcc ttgtcaaagc gtccctgtcca cgaccacaga gcgttcctct gtgcacgcg 420
 ggocctcctga ccccgagccc cgggccttct tcgctgcacc tcggctgctg gcagcttcga 480
 ttttctgctt agggatgcag ccgccccggc cgggaggtgt cagccactgc caggtgtcag 540
 ggocctcagct gtcccggaaa gaggagttag actagttctt gattctggcc tctatacct 599

<210> 169
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 169
 gttccagttg ttccacatcc tcatttcaca tttgaacag ttggtctttc tcacttttagc 60
 cattttaatg ggtgaattgt agtatctcat tgtggttggg aaaatacttt aaatcaaacc 120
 aaaatacaga atgaaaatct taccttatca gctcatcagg gttaaagcag cttatatcag 180
 ggagccaagc agacacgtca tggctatgtg gaaggcactc ttttaaagggt ttcttttcat 240
 ctgcagacga aagactcttt gaggtgctca atgtcacagc cagttgcttt aaaatagaak 300
 ctgtctggtg ataaatttca tcagcatgtt gtgttgccac atgtctatgg atgctggttt 360
 ggtctgtgaa tagctgocga cagcatttcc acaatttttc tttacattca aaactccttt 420
 ttgttggaac ttcttttggt ttgacaaaaa gggcaaggc ctgcaattag atttcaaagt 480
 ctaacactgt taaataacct taggtttatg gctaatagaa gtctcactaa gattcttttag 540
 attatctttc cacaggggct tctagtttta tgttccatta tgttatataa ttctotgag 599

<210> 170
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 170
 cttaaccaag aaacaaataa tagcaatggt ggtgcaccac tgtaccccag gttctagtca 60
 tgtgtttttt aggacgattt ctgtctccac gatggtggaa acagtgggga actactgctg 120
 gaaaaagccc taatagcaga aataaacatt gagttgtacg agtctgatca tgttttctgt 180
 actcttgggg cctctattgt gggacttaac attagcttag atagcttttt aaatgctgga 240
 ttaaaatgga aaagagctgt tttcatggtt gactatctga ttgttgatca aagaaggcay 300

tgatgtttat	tttaagtagt	gctaacattt	actgagcatt	taccaaccag	gtgccaggca	360
tgcacctaa	tgcccttagga	gtatgttcat	ttagtcccag	gcttgcttcc	atgctgcttt	420
cagactttcta	aggaaaggaa	ggtgaagtct	cacatcaccg	caggcatctg	catcaacttt	480
agtgaatttt	tcctgtagct	tgtcaaaaaga	attattgggt	ctatgcatta	ttttttgaca	540
aaaacaaatt	ccagtttagtt	aaaataacct	gatattttca	aattgtttga	catgacatt	599

<210> 171
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 171						
tcctcctcta	ctcctccctc	atcccggatg	acaggggaatg	tatccagaca	accacccagg	60
cccattgcaga	cacctccac	caacaagatg	ctgcccataa	ccttataggg	accctagctg	120
tccccagaac	tgaccccaat	tgggattatg	aagcagtttc	ctcagacaga	cagaaacgaa	180
gctatatgat	atcatgcctc	ctagctggca	tggataaage	tgcccttaag	gctgtaaaact	240
ctgaaaagat	aaaagaaatc	actcaaggcc	ccaatgaaaa	ccctgctctt	ttcttctccs	300
gcatttcaga	ggccataaot	aattatacca	cottaagccc	tgataccaat	gggggcagaa	360
tctacctacc	cattttacact	tcattttccca	gtcagccccc	aacgtctgaa	agaaacttaa	420
aaaactagaa	gatggccctc	aaacctccca	aagagactta	atcaaagtgg	cctttatggt	480
ctttaatgat	gatggctaga	atttaaaaaa	agaacaaaag	aaagaaaaga	aaagaagtat	540
tggcaaagat	gtaaaaaaa	ttggaacctt	catacattat	tggtgggaat	gtaaactag	599

<210> 172
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 172						
gtacctactc	tatgggtagg	ttctcaatga	ctactgctga	aggaattcaa	actgaaatgg	60
aagaagttrt	ctcatggatc	aaaagtctta	gctgaagact	tcatgttttc	cattaactgc	120
agtcaactcac	atctatttta	gcttctgcta	tcaaaaatgg	aaaagcagcc	agtgaacttct	180
gctttaaccg	aggtgtctct	gtattttttg	taaacttttt	tctattttta	aatttttato	240
tagagaaagg	gtcttgctct	gtcatccagg	ctggagtgcg	gtggcacgat	tgtagctcay	300
taactttcaaa	ctcatgggct	ctaacaatcc	tcctgcccta	gcctctcaag	tagctcagac	360
tacaagtgcg	agcccagcta	atttttaaga	ttttttgtag	agatgggggtc	tcgttatggt	420
gctatgtagc	tggtctcaaa	ctcctggcct	caagcagtcc	tcctgctgcc	acctctcaaa	480
atgtttgggt	tacaggcagg	gcgcagtggo	tcatgcctgt	aatcccagca	ctttgggagg	540
cggaggcagg	tagatcattt	gaggtcagga	gttcaagacc	agcctggcca	acatggtga	599

<210> 173
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 173						
gatcttccaa	cttttagaac	atcttcacat	ttaatgggtg	gcattttact	gtaagcagga	60
gocctctcct	ctctcctgtr	tccttatctac	ttattattga	tctattttatt	cttgcacaga	120
ctcatagatt	cctattttttc	aattggtttat	ttcttttatt	ttcttaatta	tgttgatgct	180
caaattgtcc	tagatttggc	cagtgggaagc	ctcttcaagt	tgatttccct	gtccttttga	240
caggtcoccc	tcactttttt	gagcactgoc	ttactttcca	gcacaaggta	tttaatgcty	300
atttttgtaa	ggaaaagtgt	gtgattagaa	caaaaaaagg	ggccctcaca	gatcaacaaa	360
gatggttgtg	cattggcaat	tataggtata	attaagtgcg	aattattttg	agcatataac	420
acagaaaagaa	ataactgcac	agaaaaaaga	aaggaccata	ataaaagact	aaaagaaact	480
cttgggaatta	tgaaaagttrt	ttttcatatt	gttctttttt	tctgtatat	caaaatttta	540
tgtaatgaga	atgratttagt	tttataatga	gaaaaattac	ataaaagggt	tttccctttt	599

<210> 174
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 174

gatacgtgaag	aggtgttttc	aggcatcttt	attggtgttt	tggacatatt	tatttatcct	60
gttgtaatgt	ctcagagctc	gtccactcoa	ttattcttaa	aaaggaaaaa	ccttttatgt	120
aatttttctc	attataaaac	taatacattc	tcattacata	aaattttgaa	tatacagaaa	180
aaaagaacaa	tatgaaaaaa	acttttcata	attccaagag	tttcttttag	tcttttatta	240
tggctccttc	ttttttctgt	gcagttatct	ctttctgtgt	tatatgctca	aaataatttr	300
cacttaatta	tacctataat	tgccaatgca	caaccatctt	tgttgatctg	tgagggcccc	360
tttttttgtt	ctaatacacac	acttttcctt	tacaaaataa	gcattaaata	ccttgtgctg	420
gaaaagtaagg	cagtgcctcaa	aaaagtgatg	gggacctgtc	aaaaggacaa	ggaaatcaac	480
ttgaagaggc	ttccactggc	caaatctagg	acaatttgag	catcaacata	attaagaaaa	540
taaagaaaat	aaaccattga	aaaataggaa	tctatgagtc	tgtgcaagaa	taaatagat	599

<210> 175
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 175						
aacaccaata	aagatgcctg	aaaacacctc	ttcacgatca	tcagtcacac	tatcaaaaac	60
tatcagtcct	atggctgaac	caggggttga	aaatgtgggt	ttctatatct	tattctatgg	120
tgtacctctt	gggttacttt	gtctaataac	ttcatcaatt	tgggtcttaa	cttcctcacc	180
tgaaaaagag	gataataact	tcttgctata	ttagcaatgt	aatgagactc	aaatgaaacc	240
atgtatatga	aaaactcctt	aaaatgctac	aaaagttaaa	ggttttataa	aagagcttty	300
ttaaaaatgg	ctgctttatt	gaaacgtttt	aacagtttct	tttttaaaaa	agcagccaat	360
ttggaggacc	tacgcatttg	gatgggtgaag	ccctttggca	gtctgagtaa	gcccatattg	420
gttctgtgtt	gcagcctggg	caactacctc	tccatggctg	catcttaatt	gggggtcccca	480
gaagaaaacc	tggagggaaga	ttcatgtgaa	agtgatgtat	taggaagtgc	tcccagaaaa	540
aatggtaagg	cagtggggca	ccgtatcaca	caaggcactc	ggaggagaac	tttggctta	599

<210> 176
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 176						
ctgaccccag	caaaaagcaa	tatttaacag	cctgacagga	gaaatgccca	aaagagtata	60
aatggcagct	gtattcatto	aaaagcatag	tctggggcca	aaatcctaca	cattccagga	120
gctcctgtta	ttggtaatga	ctgcagatgc	tgagaatcag	gcttttgtat	ctgtgctgtc	180
gatctaagag	ggcagggaca	gctagtagaa	aaatgtccaa	tagcactagt	agttaaaaca	240
aaaagcacat	aaaacaacaa	taaagtctat	gattggcata	tattttctga	aatgaaaaaw	300
ctctatgctg	gtgggtgatga	cataaaaactg	aaaactacac	aattgtttca	aaggaaagggt	360
aaagcaaat	ttgattacat	aaaatatgac	gtcttctgca	tccaatagt	gaaaatgtgg	420
aaactataca	ggaacatgga	aacttgctta	tgatgtgttc	tgctagaagc	tgcaagacac	480
taaattgcat	gtacaggcca	aatacaactg	cccacagcca	tatgcotatg	aaaaagatac	540
tagaaaggat	atcagggtgt	tttccttctt	tcatccctc	catcctttgc	atttacaga	599

<210> 177
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 177						
cttcacatca	ttttagagcc	ctacagtcac	agaatcctcc	acctctctca	tttgtgatat	60
agcttaagtg	attaggaaca	caagttccga	tttctgactc	ctgggttccc	atcctagctc	120
tgtcattttg	tgtgggattt	tggggaaatt	actgaatato	gtagaatctc	agtttttgtt	180
ttttttttca	tttgaaaact	caaggatagt	atctacctta	taggggtgaa	atagggatta	240
aacaaaatac	tctgtaaaaa	cacaaaatac	aggagctctc	aagatttgaa	gggcacttas	300
agactatata	atcccatctc	tctaaottag	cactgatgag	tctcaatctg	atttttaggtc	360
atcagggaca	aatcattttt	aatgggttga	aaattatttt	tattgtagta	ggaactacta	420
gcacataaat	ctcattttat	ttcacagata	cagcttagca	aaaatttaaa	aagcaagttg	480
atataagaaa	aacgttgaat	cagtaatact	acaagttgtg	aatcaggttc	actgtgtaot	540
ggttaccaac	ttgtctgagt	gggatgagat	agaacgcccc	cacacaacaa	gttacatga	599

<210> 178

<211> 599
 <212> DNA
 <213> Homo sapiens

<400> 178
 tacttttatat ggtgaacaac gtgattcagt taaagatcctt gagataagga acttatcctg 60
 tattacctgg gtaggacctg catcaatcac atgtattttt taaaagaggg acgtttgaca 120
 cagacagaag acacatagaa gagaagggtga tatgaagaca gaggcagaga ttggagtgat 180
 gcagccgcaa gcaacggaat actggcagca aocagaatct ggaagaggca aggaatggat 240
 tctcctgctg gagcctccgg aggaagtaca gccctgctgg caccttgatt tgggacttcy 300
 gtcctccaga aaagagagaa tacattttctg tagtttcaag ccaccaagtt tgtggtaaag 360
 ttttttacag catccacagg aaactaatac cagtggtaaa gtgtacttta cctccccgtt 420
 tgcctatagt gctcttgatg gctggaatgg tctgtttggg gctttgatat ggtttggctc 480
 tgtgtcctca cccaaatctc atctccaatt gtaatcccca catgtcaaag gcgggatctg 540
 atggggagacg actggattgt ggcggcggat ttccccctta ctattctcgt gacagttag 599

<210> 179
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 179
 tgaagtaagt ccaagttagg tctatacctc catgccctct caccacttgc ctgctccttt 60
 cctggcccca ccctcaccag tcttgcaagt ttcttcacca ctcatgaagg aggggaacac 120
 ctgtgagggg gtcacaagtc atgctaccaa gaaccagaac catacagggc ttgactccat 180
 ccttgagccc ctgggtgaca gtttcccatg gctotgacaa ggtgctagaa gtgagctggc 240
 atatgctctg ccttctcaga caggctactg gtctggctctg tcctgggtgtc tgtcagacak 300
 gagcccagcc ttatgtcacc cagttcctga actgacgaot coccaggatg atctatgtcc 360
 ctgatagcac aacctctaga ccactgggtc tgaggaccag agtgggtggag ccatgggatg 420
 ctggagcagg aaagtcattgt agggactggg aacttgttct aacctcccca ttgttggggg 480
 gatgccttag acctgggagg acagggtctt gtccaaggct acacagtgca acaggagtgg 540
 aatggggcat gaactcaggg tttttttctt tatttccagt tcagcatttt tgocctcatt 599

<210> 180
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 180
 ctacaggtgc cggccaccac gcccggtcaa tttttcatat ttttagtaga gacgggggtt 60
 caccgtgtta gccaggatgg tctcaatctc ctgacctgtg gacctgcctg cctcggcctt 120
 ccaaagtgtt gggattacag gcatgaacca togcacccag cctacctga tcaactcttt 180
 agggatattg taaaaacaa gattcatggc acaagccaat gccaaactcat tggagtggt 240
 atataatttt aaactttgaa agaacataaa agacacaaac atatgcatgt gtgtaatatr 300
 atcagagaat attttaggaa aataaaaaacc atcgataacc ctacatgcct agataatcct 360
 tactaacatt ttggtatata caaccttcca tgtttatata tgcacttctg gttttgtcat 420
 gaacatgcat tctatatctt ccaaatactt actgagggtc tactacatgc taagctctgt 480
 tccagcactg agaatacatc aattaagacc aaaattcctg tcctcatgaa gottataaat 540
 gaagattata ctttcagata gtaataaatt ctttgaaaag cagaaaggga tagaacgtg 599

<210> 181
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 181
 gtagtatctc attgtggttg gaaaaatact ttaaatcaaa ccaaaataca gaatgaaat 60
 ettaccttat cagctcatca gggttaaagc agcttatatc agggagccaa gcagacacgt 120
 catggctatg tggagggcac tcttttaaag ggttcttttc atctgcagac gaaagactct 180
 ttgaggtgct caatgtcaca gccagttgct ttaaaataga agctgtctgg tgataaattt 240
 catoagcatg ttgtgttgcc acatgtctat ggatgctggg ttggtctgtg aatagctgcy 300
 gacagcattt ccacaatttt tctttacatt caaaactcct ttttgttgga acttcttttg 360
 ttttgacaaa aagggcgaag gcctgcaatt agatttcaaa tgctaacact gttaataaac 420

cttaggttta	tggtctaata	gaagtcctact	aagattctttt	agattatctt	tccacagggg	480
cttctagttt	tatgttccat	tatgtttatac	aattctctga	gaagtaacac	ttctcttatt	540
agtaagcttt	agaagagact	attagagaaa	ttaaaactag	gctttatatt	gaggaggtt	599

<210> 182
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 182						
cttaactaaa	gaaaaaata	gaagtgaag	gatttgttat	tttgagagag	tatagtttat	60
ttcagaagt	atggttgcct	gttttaagtc	tgcggtctca	aggcatgtta	tctttcaagt	120
tggtcaatat	caaaatagat	gagccaaaa	gaaggggaaca	gtgtgcttaa	ggtttaaaa	180
cgtaatgttg	aagttgttgg	ttttagttac	tttacttttc	tattttacag	ggttggtttt	240
tggtttccat	tttgtgggtc	taaaatttct	tgtaaggcta	taagatgtac	agtgtacccr	300
tataaaatta	ggattgactt	atagagggga	aatttatttg	gtttattaag	atcctttcag	360
atggatttta	tacctgcttc	tctatactag	ccaagtctgt	ctgagtgaag	tggtaatgtt	420
atctttaatt	tacattttta	aacttttaca	tagttaaat	ttaataaaaa	atctgttctt	480
gcottgggaa	ctaccataga	tacgttttct	tcaggggtaca	ttgagcgaat	tcccaaaatt	540
gtattcgtat	tgttttattt	catttcctct	ttccttacc	caggttgtct	tatgagttc	599

<210> 183
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 183						
tgtgtacatc	acatcaatgt	gaggggggtgc	tggaagtgtga	aacagctctg	caaagatcac	60
ctacaaaaga	atcatgagtc	acaattcaat	ccaactgcta	tctttgcaact	tctattagaa	120
agaccttaac	attctaaatc	tgagctctaa	ctocatggca	ttcatatgaa	aatggaatta	180
ctttttaata	tttaaaatta	tgctctttca	aacacaaaa	tctaaaactg	aaaactgtaa	240
tgaaaatttc	ttctctctat	aattcgatca	aataaaaaa	cacgacacta	atgcttatty	300
gatctacact	cctcccagag	aactatgcaa	ttaaattcca	actttgaaag	caccacagct	360
gagccaggat	gtacagcttc	ttgaggggct	caaaagatcc	atgacagttt	cattcctata	420
aataacaaga	actcttaggc	tgggcgcagt	ggctcacgcc	tgtaatccca	gcactttggg	480
aggetgaggc	agtcagatta	cttgaggtca	ggagttcaag	accagcctgg	ccaacacggt	540
gaaactctgt	ctctacaaaa	aatacaaaaa	ttagccaggt	gtggtgggtg	gcacctata	599

<210> 184
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 184						
cggttaaaaa	atatttacag	ctattgagct	tgggctagaa	tctagaagga	gaaaagggaag	60
tgagagctaga	aagggtcttc	cagactgggg	taatggcaaa	gtcaagaaca	gggagtatgg	120
aaaaaataaa	aaagtacatg	gacctggcag	aaatagaggt	ccatgtgggg	agaagtgaag	180
aataacaaag	taggaacaat	ggttatgaag	gccttgaatg	ttaggcggag	ttattcctat	240
ggggcaaaaa	gaaagcttaa	tcttcaacaa	aagcctgagc	tttctgatag	caaagactay	300
acotttatcat	tctcggaacc	agtaoaggac	aaaactcaaa	accagoact	totaagtact	360
gcataaaact	ttgatctgcc	aaaaagcaca	gtggctaaca	gcattggccac	tcagttagt	420
caoctacgcc	tgaatttggg	ctccaccact	caaaagcaat	ctcattctag	cttgacctct	480
tggaagtcat	ttctctattg	tagttttgat	aatcatatct	attcttcaga	gttgacataa	540
tgaaatagga	aatgtaccag	gaccgacaca	gttcaatttc	aggaaaacag	gtacagtca	599

<210> 185
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 185						
aaattatatt	aagatatcaa	aaaaaacctt	gacatgagga	aaaaatgacc	cttaggcctg	60
cagggcacag	aactgctgga	acacggccaa	gatatgaggg	tctaattcag	cagtgaagag	120

aagggttctcc	aggggtcacca	tgtactgtgtg	gattatatttg	tgatgctgtg	gacacacaaa	180
agggggtagt	taggtcagga	aaaagcatat	aagcaatctt	gtggaacatt	tcottcagca	240
gcccacccat	gctgcagaat	gatgaaaaga	ggaaggggaa	aaaaaagtgc	tgataggaay	300
aatggaccct	tgaatatccc	caacattaaa	aaaataaaaa	gggaaatgaa	aaaaatggat	360
gctcaatagc	tttttaaaaa	atccagttct	taccaacttc	tatgtaaaaa	gaattcatga	420
ttcaaggcag	tggcagcagt	gootgcttgc	tcctagtact	attacggact	aggctcagct	480
agctctctcc	ccagtcaggg	cataatacat	tgtaactttt	taaaaagcag	ccagacggac	540
tgacaggaag	ataaacagtc	agaaaacgaa	atactcttgt	ctatgtgttc	ctctataag	599

<210> 186
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 186						
atattttctga	atcccagcca	tgtacaaggt	acttgtatta	gtgctacatt	agttataaga	60
aactaccaca	gacagagtga	cttaaaacaa	cacacattta	ttatcacacg	gatctctagt	120
ttattctgac	atgggtotca	gcaggctaaa	atcaagggtg	tggcagggct	gtgttccttt	180
ctggaggctc	taggcaagaa	tecatctcct	tgccttttcc	agcttctata	ggctgcctgc	240
attccttgac	tcctgacccc	ttcotocata	ttcatagcca	gcaatgggtg	cttctcacay	300
ggcatcaccc	acttcttcca	taatcacatg	tcctctgac	tcttggcttt	cctctcttac	360
tttttttggt	tttttgaaat	ggagtcttgc	tcctgacccc	aggctggagt	gcagtggcac	420
gatctcagct	cagtgttaacc	tcacactctc	gggttcaagc	gattctcctg	ccttagcctc	480
ccaagtagct	gggattacag	gtgcaagcca	ccatgcccg	ataatttttg	tttttggttt	540
gttttggttt	ttgagatgga	atctcgctct	gttgctcagg	ttttagtga	gtgggtgcaa	599

<210> 187
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 187						
ctcaagctta	gtcttggagt	tattgttgcc	catcatgggt	agagccaagg	gaggatgaat	60
atgggtccag	gttcacccat	tatgtagatg	aactctggct	ataatggggg	tatgggtctg	120
tgggtttcctc	ctctotctaoc	ccaaatggga	gttttccctt	caattatctt	tataaocaagt	180
gtgggttgag	cttcaaaacca	caaaaccacta	atatttttat	tggcaagtgc	atcctctaatt	240
acgtatagtt	ctgttgaatg	ggtgaaatat	ttatcacccag	atgcatttgt	ttttgtagtk	300
tttataatgc	ttggaaagg	gctgagtgtc	tctggcctta	atcccttctt	tggctctact	360
gccactgtcc	tggtttagct	ccccccaaat	tttacctgta	tagcctctga	actgggtctcc	420
cagactccag	gctgacccct	ctaataccatc	ttccacattg	gcttacagct	ccatcttctc	480
aaagtacagc	ttttgccatg	ccattccttt	gctcaaaaat	catttattga	ctcccagttg	540
cagctaattg	taagttccca	tcacctgggt	cctgtagccc	ttcaggaact	ttccttcca	599

<210> 188
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 188						
gaaagggtct	ctttctgcat	gtgtgggaag	cggccttaga	tgacctcagg	acaatgttca	60
accttcagtg	tctatgattt	tcattgttagg	taggggtaga	tcactattga	gaagggtcca	120
taaaataatc	tgatggcctt	ggtgtcctac	aagctaagtg	gaaaccaaca	gtgtgacatg	180
gcttctgaaa	agagatgggt	tgacctgagg	tgacaagaac	aaaagcaggg	cctgaactga	240
gggaggtgtt	tgtcccgctg	tttggggctg	cttaaaccac	atctggagct	tgtgttcagw	300
totagacacc	accagggaat	cagagagcca	tctatgtggc	caggacgggg	agggaagagt	360
taagaaaacc	tatcacagga	agaaagtgca	gattcatgac	caggcactgc	atctccaaag	420
ggctcctcta	gggcagaggg	catagatatg	gtctgocagg	actttatgct	ctcacttaac	480
tggacattca	cagtgggtctg	cctggggcagg	atttcttctc	cottcagacc	atgagaccca	540
ggactgctcc	acgtccccca	tctctcagaa	gctaagagcg	gaagcagcaa	cagggtgag	599

<210> 189
 <211> 599
 <212> DNA

<213> Homo sapiens

<400> 189

aataagagta	gctgggacta	caggcacaca	ccaccacacc	tggctaattt	ttacactatt	60
tttttccaga	ggcaggggtct	cctgtgtgtg	cccagggtgg	tcttgaactc	ctgggctcaa	120
gggacccatc	cacctcagcg	tcccaaatg	ctggaattac	aggcatgagt	caccgtgcct	180
ggcctgaagt	ttttttcaaa	ggaaaagaga	aattttaaca	ggaggaaaaa	gaaaaattga	240
gtacaatgta	tttgtttgtg	taaataaaga	catttctata	cattttaaag	gcaaacaccy	300
gacttgcttt	tattaccagc	ttggactcca	cagcatcctg	agtttgctag	ccagttagagt	360
ctttggcacc	ttcttatctc	tgcagtgtgg	acctcaggtc	agattctcac	cctgttgctg	420
cttcctgtct	tagcttctga	gagatggggg	acgtggagca	gtcctgggtc	tcattggtctg	480
aaggggagaag	aaatcctgcc	caggcagacc	actgtgaatg	tccaggtaag	tgagagcata	540
aagtccctggc	agaccatata	tatgccctct	gcctagagg	agccctttgg	agatgcagt	599

<210> 190

<211> 599

<212> DNA

<213> Homo sapiens

<400> 190

gaggcctcgg	ttgtcctggc	cacaaatgca	agaaagcctt	tacaccccag	gctgcaggag	60
gttccctaaag	tatgtagggt	attcatacac	acgtctcctt	tttattggaa	agttagaaat	120
tgcactacat	tgtaccttgg	gggtgaaggt	gacattaaca	aaagcagttt	ggagttagtg	180
aaaggatact	ccaaagggga	aggcttgccg	gatgtgggtt	cttgcccttg	ccctagccct	240
tgtgctgtgt	gaccagaca	cagcctgtgt	ctggaccccc	tcttgtagcc	tgagagggtg	300
ggaocaggag	atctctaagg	gacaotccag	ctgtctatga	ttaagattct	gggacaaata	360
aatgtcatga	ggcagcaggt	ggggggactg	gggtggggga	catggagtaa	atgacctctg	420
gatgcocctca	ctggggctgg	gacttgatga	tttgtacaca	gtcaagggaa	gccacataca	480
ggctaattctt	ggcctcacia	aggagtgtgg	ttagagtgtg	tgggtggtgg	cgatgttttc	540
ctgcaagcgc	acacgatgtt	tatogtcttc	gtacagggtg	atgotgaagc	cacgaagac	599

<210> 191

<211> 599

<212> DNA

<213> Homo sapiens

<400> 191

gattatacag	tatttatatt	tgtcctatatt	ttttcactca	acagtatatg	aatgagattc	60
atgttgtttg	atatagctat	agttcattca	ctcattgaca	tatatagtat	tcttttgtat	120
aaatatatca	caatttaact	atccattcta	ctgttgatgg	acatgggggt	tgtttccagg	180
tttcagctat	ttcagctgct	atgaacattc	tttagatgtc	ttttgggtgaa	cataggtata	240
cacttttgtt	acctaactgc	tcaggagtgc	aatttctaga	ccataatgtt	cagcttttagy	300
ggaaaatgot	gatagtctcc	aaagtgggtg	cagcagtgta	tgaaagtcc	agttgctcta	360
catctttacc	taaaacatca	attttaatat	caacacagca	tttcattata	tggatacacc	420
atactttcatt	ttatcagatt	cctatagatc	agggattcct	tgccatagac	ctctggcact	480
ctgataaagc	ctgaggactc	tgtctcagaa	tgcgacatag	taaaacgtgg	gcattatcat	540
taacacacta	aatoacacca	tccagtagca	ggtctaataa	ccaagcaatt	tcbaaattt	599

<210> 192

<211> 599

<212> DNA

<213> Homo sapiens

<400> 192

tgaattttgta	tttaatttgt	atcacctctg	taagggtgcat	atccatccct	tgotagaaga	60
gtataaatat	ataaaataca	tattactccc	aaaaogaa	ggatttttgt	tctgtttctg	120
cctttttaca	gttgtttatt	aaaaaacatt	agaaattgta	aaaaaaagat	tagaatcatc	180
caaaagtcat	tattaaagg	ttatttttgt	tgtttttgac	ctgttttgct	tgaatatact	240
taagaataaaa	ataatgccat	gtaggggaata	tgtttttgag	ttagacagta	tattatgggy	300
attttttcaat	tcatgcatga	cttttttatg	ctatgtgggt	tttgaataga	attttctctc	360
tgcatagtta	ttaatggaaa	taattcactc	tgggtttaaa	aaataaactc	tgtaagactt	420
gtattatcca	aaattattta	gtttcatata	ataattgggt	tgtaaagtag	goagtgggtg	480
tatgggttagg	tatgagatgt	ggttagaaaa	acactacagc	tgatactctg	gggtataagt	540

gaacatgaca atggaatttc ctgaaatata gagctttaac acttcagaac ttttatccc 599

<210> 193
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 193
 tttctacaca taatgtttac atttaggaga ggaaaaatgt atttccattt ttaatgttaa 60
 tgtccatcat agtttgccat ttcaattcag taagtatgta cctctggtaa gggatggaaa 120
 taagaaaaat gactacacag tgctgccctc agggggctcg cctgaatcta atgggtgtga 180
 agatagatac ttgcacaatt tacaataaaa gaccaatttg taagtattgc tggagaaga 240
 tgactaattc agccccaagg acagaaggct gtatcagctg ttaagaatga aattacaaar 300
 gttgaaagat tttattttct gtaaccatag cttgacatac agtaaccaaa tgccatattt 360
 ctttaagatt gtttgtttgg gaaattttgc actctacaat tcgtaagatg aacaaacatg 420
 tcctgaagat ccagaaagag ctggaagaag cttaaagagaa acttgctagg caacacaaaac 480
 gggtaagttt tgtgtaaact tgtaagtagt taaagaaaaat ataccagaaa ctctggagag 540
 gattcagagt tcattatctt gatgatattt cattttttct gagcccaaat taatgcaga 599

<210> 194
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 194
 agttcactat ctctgggtcg gcctcacgtt tgcacaaggg aagtagcaga agggaagagg 60
 acacttgat ttctgttaga gtctctgggg gaagaggag aggactatag atacttaaca 120
 ctttcccggt actgtgagga ggaatggggc agtcattccc aagttaacgg aatacttctc 180
 atagtattaa tttagtattt tagccatttt ggagggaagc agtgagtgc ttaacatgat 240
 actactattc attatgaaag tattttccag tgttatgcat atttaaccata gtagaaggtr 300
 aaaaaaagtt gagtttagtg ccctatagga acctttcgca agtttgagta ccagtctcca 360
 tgtagacata cctgtataca tatatggata taaacactca gacctgaaat actgtaagggt 420
 aaatgggtgc atctcatttt gtagatgcta taaagtgaga catagagaag ttaagtaaca 480
 tagctagtag gttgcatagc tggtaaatga ccagagctag gttctgacac aggtctgtca 540
 gactccagag actttttctt catgcccacac tgtttctaga agtgtgctgt ccaacacag 599

<210> 195
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 195
 attctgtctg tagtactacc ttaacttctt ctccctttcc agcggtttat catgatcttg 60
 accgagcacc tagtacgatg cgaaactgat gggaccagtg tattaacacc atggtataag 120
 aactgtatag agaggctgca gcagatcttc ctacagggtat gtggggaact tcgattagggt 180
 aataacacta ttctcagcca caaagatttt tcattaaaaa aaatccttgt caaatttgtt 240
 aggaggttat atagtacctg ttagaccctt tagtrcatgt ccatttgctg ctaccattgs 300
 tcatcagaat atttaggctt aaactgattc tgtaccactt agattccctaa ttgccacccc 360
 cccaacaacc ccccgcccca cctttttttt gagatggcat ctcaotctgt tgcccaggct 420
 ggagttcagt gacacgatct cagctcactg caacctccac ctcttaggtt taagcaattc 480
 ttctgcctca gcctccata ttgctgggat tacaggcacc cgtcactact cotgcotgat 540
 ttttgtattt ttagtaggga cagagtttca ccatgttggc caggctagtc tcaaactcc 599

<210> 196
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 196
 ccaatataat tttcttttga aaatgatttt gacacgaagt agcagaaaaa gctccaaaca 60
 ttagaatatg accagtgtcc tggcttccaa gttaaactat ctttgctcag tttccctact 120
 tgcaaaaata agtgaagtaa aatcaaaaact ctgtggttct ttccagctct taacattctg 180
 tgattcttat ttttagccct ctccataaat aatgctgtca tcttataaga acttcaacag 240

acttgagggtc	ttattgcaca	agcacttttt	ctaagatgaa	aacataaccag	catagtggtr	300
gagttctcta	ctttctagtt	ttcttgcaaa	gcttgacttg	atgcttattg	acgtagctcc	360
taacaggaac	ttaaaaacac	tcctttttct	taattatttc	agctgactcc	ttttcctact	420
gtggcattct	gttatctgaa	gtcaaacgta	cctgaatgtg	tcctattgtg	ttactcaact	480
cacttctgaa	tatggttctg	ttttgcatac	caccaaccca	cataaccatt	tctgaatctc	540
ttgtttcaca	ctgctccagt	gacaacttga	ttcacaggcc	gaactagtga	ggtaagaaa	599

<210> 197
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 197						
gaaactgcaa	attccagcta	cttttgatgg	tactgggtctc	atcctttcta	ctttatagtg	60
gttaaccttt	attcctttct	aaacttgagg	cacgctagag	tcagacagaa	agttcatttg	120
cactgattaa	ttcatagtca	tgattccata	aagggtttcca	ggctctacgac	atggctgtgg	180
aacggaaggt	gcaaaatagc	aaaaactgac	attaaattaa	acttttgatc	atggaaagca	240
aggtagaatg	aacattcttt	aagatttctt	aggcagttcc	ccaagaactg	aactgtattk	300
tagcattgtg	tacaacccac	catgtttcaa	gagttaggta	agtgtctgaga	tttttatctt	360
tgtgacactt	ttatttcatg	gtactataca	attttotttt	tctctgtgtg	ccatgacata	420
tgccatgaaa	gactgaaaaa	acttgcttag	aatacgaaga	gtgggtgctaa	ggtcctgggg	480
aaacagcaag	gcatagcagc	agagagaaat	cggactttgt	tttgggcatg	agtttagcatt	540
gtttaggatc	ctgctcaagt	catgggctcg	actactccag	ctttccctct	tcttaattc	599

<210> 198
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 198						
aaaaacttca	ggccaggcac	ggtgactcat	gcctgtaatt	ccagcatttt	gggacgctga	60
ggtggtagga	tccttgagc	ccaggagttc	aagaccagcc	tgggcaaac	agggagaccc	120
tgctctgga	aaaaaatagt	gtaaaaatta	gccagggtgtg	gtggtgtgtg	cctgtagtcc	180
cagctactct	tatttgtttt	tacaataaga	aaaacaacag	cacatgtgtg	aggcgaagta	240
acctctgctg	gtcatctcca	gtgctggggg	acaacgcaga	ggggaggggc	agcagtgacs	300
ggctgcagca	ggcccagtga	ggccgtctcc	cactttgtta	aagaggagt	agaaatctgg	360
attttaatgt	gaaatcttcc	agtttctaaa	tgtttacacc	aatgttttaa	aacacacaca	420
ggcggcoagg	tgcggtgggt	cacgcctgta	atccagcac	tttgggaggc	caaggcaggc	480
agatcacgag	gtcaggagtt	ggagaccatc	ctggccagca	tgggtgaaac	tcatctctac	540
taaaaataca	aaaattagct	gctgtgggtg	cacgcacctg	taatcccaac	tacttggga	599

<210> 199
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 199						
acatggcgag	accccccaacc	catctctaca	aaaaatttaa	aaatcagtca	ggtgcagtgg	60
tgtacacctg	tagtcccagc	tactcatgag	gttaagggtg	gaagattgct	tgagcccagg	120
agttccaggc	tgcagtgagc	tgtgatcaca	coactgcact	ccagcctggg	tgacagagct	180
agacctgtgc	ttaaaaataa	acaaataaat	aaaaataaaa	taaaataatc	cataattoca	240
ttaccoagag	gtaaacatag	ttatcatttt	atattgatag	tgccagtctc	ttattttcas	300
aaaaatgaga	ttatacagtt	ttatagtctg	attttattat	gcattgaatt	ggcaatacat	360
atacaacagtt	aaatcttcag	aaggtacaaa	acagcataaa	gcaaacttgt	ccatcccaca	420
gocatggggc	acatatggcc	caggatagct	ttgaatgcgg	cccagcacat	attcgtaaac	480
tttcttttaa	cattatgaaa	attttttgca	attttttaaa	gctcatcagc	tatcattagt	540
gttaatgtat	tttatgtgtg	goccaagacg	attcttattc	ttccagtgtg	gcccaggga	599

<210> 200
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400>	200						
gagctagacc	ctgtcttaaa	aataaaca	taaataaaaa	taaaataaaa	taatccataa		60
ttccattacc	cagaggtaaa	catagttatc	atttttatatt	gatagtgcc	gtcctttatt		120
ttcagaaaaa	tgagattata	cagttttata	gtctgattta	tttatgcatt	gaattggcaa		180
tacatataca	cagttaaatc	ttcagaaggt	acaaaacagc	ataaagcaaa	cttgtccatc		240
ccacagccat	gggccacata	tggcccagga	tagctttgaa	tgcggcccag	cacatattor		300
taaactttct	ttaaacaatta	tgaaaatttt	tgcgaatttt	ttaaagctca	tcagctatca		360
ttagtgttaa	tgtattttat	gtgtggccca	agacgattct	tattcttcca	gtgtggccca		420
gggaagccaa	aagattggac	acccttgaca	tgaagtaaaa	aataaatctc	tctccatttc		480
tcactctcca	gaagcaacca	cttctatcaa	ttgctcatat	atcctcctaa	agatatgtca		540
tgtactgaaa	agcacatatg	tatgatgatc	ttgaagggaa	taagtgaaag	cacactata		599

```
<210> 201
<211> 599
<212> DNA
<213> Homo sapiens
```

<400>	201						
tctgggcccct	ctgttttaaca	agagtatttag	catttgttttt	tatatccaat	aagtgtataa		60
acgaagaaaa	caattttaagg	taagactttc	tgccttccaa	gagatgggtg	tggtttcaaa		120
tacttggggc	ccagaaggaa	gaatgaagat	gttccttcta	aaacgcagag	gacaattcag		180
ctgttccgaa	tgatggccct	gagtgtcagc	taacccccctc	ctgcagctaa	gtccccctgg		240
gtccccctgc	aagctcttcc	caccccgggg	gctgggacca	cctcttccct	caatcacagc		300
taaatcaaag	gaccaagatt	aggaaggatg	ggtgattttg	acctttctat	aacagagaaa		360
atccagataa	atgggtctttc	ctgaaccacc	aagttttgct	ttcttttttc	tctcaagttg		420
gtaataacat	gacaatgac	acattaccct	agagcttgaa	ctgatgggtc	agtagataat		480
ctaattgtgg	cctgatgaga	ccctttacag	atgaggtagt	tgagactcag	ggggcttcag		540
tgactgggcc	aaqattccct	tttggctggg	aagtgcagcg	ttagaatcca	agctgtggg		599

```
<210> 202
<211> 599
<212> DNA
<213> Homo sapiens
```

<400>	202						
ctttctataa	cagagaaaat	ccagataaat	ggtcttctct	gaaccaccaa	gttttgcttt		60
tctttttctc	tcaagttggt	aataacatga	acaatgacac	attaccttag	agcttgaact		120
gatggtcgag	tagataatct	aatgtgggcc	tgatgagacc	ctttacagat	gaggtagttg		180
agactcaggg	ggcttcagtg	actgggccaa	gattcccttt	tggctggtaa	gtgacagctt		240
agaatccaag	ctgtggtctt	tggagtccaa	atctctggcc	tttctctcatt	ctgtgaagay		300
ctgcacccct	tcttttcaggc	aggtataaga	caccgtgtaa	aatgtcaaac	aaaagttcac		360
ctatcttttg	ctgtgtggag	atggaagata	tttcaataca	acagaattaa	taggcttatt		420
ttgaaatcct	tctaattcct	cagtcnaacta	atctgagccc	tagctctggg	ccctagattg		480
ctggggtttc	agctgtggct	gacaggtgca	tactttctga	gcagaaaaca	cgcaaggctg		540
ggaagtggca	tggttttcat	aatagccaca	ggtgttccaa	tctgcctttc	tgcttcacg		599

```
<210> 203
<211> 599
<212> DNA
<213> Homo sapiens
```

<400>	203						
gacagcttag	aatccaagct	gtggtctttg	gagtccaaat	ctctggcctt	tcctcattct		60
gtgaagacct	gcaccccttc	tttcaggcag	gtataagaca	ccgtgtaaaa	tgtcaaacaa		120
aagttcagct	atctttggct	gtgtggagat	ggaagatatt	tcaatacaac	agaattaata		180
ggcttatttt	gaaatccttc	taattcctca	gtcaactaat	ctgagcccta	gctctgggcc		240
ctagattgct	gggttttcag	ctgtggctga	caggtgcata	ctttctgagc	agaaaaacac		300
caaggctggg	aagtggcatg	gttttcataa	tagccacagg	tgttccaatt	tgcctttctg		360
cttcacgctt	tttatacttt	accagacagc	aaagacatgt	tgatgaagac	tggtttgccc		420
ttctgaggtt	gtacatgact	ggaaggatgt	gttaggtaag	ggaacttgca	ttttcctgct		480
tgttttcccc	tgggaaaaca	ggactctcaa	agacagtgcc	aaaactttga	atctggaagt		540
tctggcctaa	agctgaqtaa	ggaaagtttt	aaaaaatgac	aacaacaaaa	ttaggggtga		599

<210> 204
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 204
 agaaaaccctg gaggaagatt catgtgaaag tgatgtatta ggaagtgctc ccagaaaaaa 60
 tggtaaggca gtgggggcacc gtatcacaca aggcactcgg aggagaactt tggcttaatc 120
 ccaccaggga gctctggtga gggtcacacc cgtgagtcgt cctggtcagg ggctgggggc 180
 tagagtactt atgcctcagc acccatcaat tactagaaaa agagtgggtg ggggtgggta 240
 atctcccagg tacttccagc tctcctgtgt ggggacagaa cagtcgccag cagccctggr 300
 ctctatcctc tgacaaagag atgcagatgc tggccacagg taggccccca atggtaaagg 360
 aatctaaatg gatatgcact gacaatatca gctcaaagaa ggactaattc cttccaggct 420
 ggacgttcag aacacgagaa atgagaacaa gagacacata ggacaggcct ctctggagac 480
 ggcccagaga gggtgagtga cctatcaggg tcactcaggt ggcagagtca ggattccagc 540
 cctgggtgat ctgactccaa atcccatgtg cccctttctg tgccctactg tctcactac 599

<210> 205
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 205
 cacttgtaat tcgcagtgc tcccctgccc actcagggag gtgatgctgg ctggcttttag 60
 ggacccttca ggtggggcag aaccacagaa ggaagtgggg tagggagact catcgtttag 120
 atgggacagc ctcgggccac tcacccccaa gggcagttgg caacctgggg gtcttgacagc 180
 tatcagagac aggccttagcc agggcaccoc ctggcttctg gctacttccg tgtgcttagg 240
 cacctgtcct gctaccctgc cagtggcagg gtgtatctta tccaggagca gctcaactgy 300
 atccaagtcc tgggctggag ccagttttct ccacctgtcc ctgggatgca ggagaacatc 360
 ttccagccat ctgccacag ccagcccag cagctggcag caggaggagc cggggatgtg 420
 tgctgttatc tctctgcgtc ctgagtggaa ttaccaaagt agtgaactct gccaaaggcag 480
 ggagaggaaa cagaactcaa tgttcttttt cagagttcaa aaatagtcct ttttgagttt 540
 tgaggaagat ctagacttaa aaaaaaaaaa aaatcaagtt cccagtgct aaattcagc 599

<210> 206
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 206
 tcagcctcct gagtagctgg gattacaggc atgcgccacc aagcccagct aatgttcgta 60
 ttttttagtag agacggggtt tcgccatgtt ggccaggctg gtctccaact cctggcctca 120
 agtgatctac ccgccttggc ctcccaaagt gctgggatta caggcacaag ccaccgtgcc 180
 cagctggata cttgtatttt tctaaaaatg catagccttc agttcagatg aggtattctg 240
 tttcatgcat gctgaacaaa agaattgtgaa taaaactcct ggaaagcccc atttgctats 300
 gagctacaat agtccaacag ccaaagaagt gaattctgag cttaattctaa atccaggtag 360
 cttaacagag tctccacag aggtcagcag atctaggctc aagattaagc tctgccactc 420
 acttgcatgt agctgtgaga aagttaattg acttctctga atcttaattt ctttatatga 480
 ataaaaaggg aactaaagag caccagaaat gaaaagaact gctgaggaga tactacaaa 540
 atcctaaagc acagagtaca tctgagggct gaggggtatac atgagcatgt atctctgca 599

<210> 207
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 207
 cttttattat tgaattgtaa gtgtttcttta tatattctat atatcacagg ctttttaatt 60
 tttttcttta tgctttctct atttttctaaa ttttctacaa tgactatgag gtaccttgat 120
 gagcagaatg cataaccagt atgtaccaac atatataaaa atgtagaaac tgcctcatc 180
 aaatttatga atgacataga actggaaaag atgactaatg tgtcttttga caaaatcaag 240
 atccattctt ggaggaatgg agcaatgagt gaaatataaa ttccctcactt cagttaaaam 300
 attctgtaag ggtgtgatat ggtttggctg tgtccccatc caaatctcat cttgaactgt 360

agttcccata	atccccaggc	atcatgggag	gaaccagtgg	gaggtaattg	aatcatgggg	420
acaggtttta	cctggctggt	cttgtgctag	tgcatacgtc	tcatgagatc	cgatggtttt	480
ataaagggca	gttcccctac	acatgctctc	ttgcctaccg	ccatgtaaga	ggtgccaatg	540
ctcctctttc	accttctgtc	atgactgtga	ggcctcccag	ccatgtgaaa	ctgtgagtc	599

<210> 208
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 208						60
tggcccttcc	atttcataatg	gccccacact	tcaggggaatt	tacttactag	ttagaaaaaac	120
aacgaaaaag	acacatgagg	caattagcag	atgataacgg	gttacataat	tatcagttga	180
attgtatggt	acagagacta	acttgttata	ggagcttaga	gaaaggaaaa	taggatctaa	240
aatagacaag	aaggtttcat	ggaggagcat	ggaaagcatg	gaagagacta	ggccctgaaa	300
tatgatgagg	ctgttgagga	gggactcaga	ctccagagct	ggataggacc	ttaattgtcr	360
tgtactgtag	cattccctaa	aatatgttct	gtggaacact	agttctagag	gatgctaaca	420
aggtattgaa	aaaaggggta	ttaaagacaa	atttgggaag	cactcagtca	aaatgttgtt	480
actgcaagac	ttctcagagc	ctttaagagg	ctttggctgt	gattcttaag	gagggagatg	540
ctgtctgcag	ggtttccaaa	cataatttta	tagaacagct	tcataacata	ctttggaaaa	599
tatagtttat	ttccattctc	tgattttaca	gatgaggaaa	ccaaggccca	gaagtgatg	

<210> 209
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 209						60
gcagtgtatg	aaagtccag	ttgctctaca	tctttaccta	aaacatcaat	tttaatatca	120
acacagcatt	tcattatatg	gatacaccat	acttcatttt	atcagattcc	tatagatcag	180
ggattctttg	ccatagacct	ctggcaactc	gataaagcct	gaggactctg	tctcagaatg	240
cgacatagta	aaacgtgggc	attatcatta	acacactaaa	tcacaccatc	cagtagcagg	300
tctaataacc	aagcaatttc	aaaatttcaa	aatgagcatc	aacataaaaa	tatgtttaty	360
ggccttttgt	ctgctttctc	cacacaaaat	cattttcttt	gtttctacat	ttattggcaa	420
aagtcaatgc	atattcttga	cttttgccaa	cttttaatgg	cccatatata	tttaaatttg	480
tatgtaagca	ctcttcctgt	gttatggata	tgaaccatct	ctgtgaaatg	ttacaattgt	540
tttcattttg	cattagcttt	gccattttgt	ggtctttaga	aagaattgat	gcccgtgtgt	599
cagtgcgatg	acaaagattg	gctaaataag	tgataaaggg	aatagtgaag	gttgtttta	

<210> 210
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 210						60
caggtgatcc	cagtgtgcag	ccaaattggg	aatgatggat	acaaagtgtc	ttccctggcc	120
cagagcatgt	gctcagttag	aggggtgggt	ttgccatgog	tctgattatt	accgccacac	180
atccagcttc	tatcctgttt	ccccagcag	tgattgtcac	agctgtgtca	tactgtgtgt	240
cctggccttg	gcctcttctc	actctccacc	tcccaacatg	cagcacagag	cagctggaaa	300
ggtctttcct	gaaatgccaa	cctgaccttc	ctccctcact	ggcctgccac	tctctgaacy	360
tcgaggcttt	cccacctgca	ttcctctgcc	tgtaatgttc	tatagccctt	ctcttaactt	420
gaccaacact	tactcctcct	ttgcatccca	agttcctcct	ttatgctgtc	ttaggactga	480
actttttcct	ctaccacact	cagcataccc	tgtgctgggt	tttcattgtg	tggaacttg	540
cttggctcct	ctctccccc	gcacactttc	agctccatga	gcgagagacc	agtctttcct	599
attctccact	gtccccacca	gagcctagca	cacagtgtctg	gggtgggcct	cattacatg	

<210> 211
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 211						60
aaaaaaaaag	actaattttac	atcaatcggt	gttatgcaac	agctattgcc	atttaattgga	

gaaagtgacc	accatttccc	ctgcattatt	tctaccatat	aatcagttcc	taataaccta	120
ttattgtcct	cccataaaaa	tctctgcatc	ctaattgtctt	ggcctgctca	tttcattggt	180
ggtagagcct	ttcttttcccta	taacctacaa	tacctctcttg	tcagaaaagc	atcctgaaca	240
caataagtat	gatgactgac	ataataat	tacattatac	tctacccttg	ctccaggcty	300
tctaattcag	aaaatagaat	attgttaata	tcactccatc	aggctagaag	agaccttggg	360
gaatgtctta	gtgcttctct	atcatttgag	tttgaagata	cttttttaac	agctataaat	420
tccacagtcc	ttgcaacata	caaagtagat	agacttttca	gtaaacactg	agaaatttta	480
tgtccaaaaa	atgacaaaaa	attcagtaac	atcttaaaat	gaatttgcac	tttatttgtc	540
acgcagcttg	acatacattt	gaaaagtagt	catatatgca	tatatacaca	cacacatac	599

<210> 212
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 212						
cctgaagtgt	ggggccatat	gaaatggaag	ggccatatct	gtatagcaca	gtgtagttca	60
caactgctta	tactatcacc	gtcctatata	actcattctg	cagtactggg	aggtaggcaa	120
ggcaggcatt	attattccaa	tttttagaggt	gaggaaatga	aggtagagaa	aatttttagtg	180
actagctcaa	gtgtgacttc	tacttcaact	tgttttcttg	ctcctttcca	ataagtaaaa	240
gggaatgtgg	cactgagtag	taatgaocaa	aattgatcaa	atttggacta	cagttgaccy	300
gtgagcaacg	cgggtttgaa	ctgtgcaggt	ccacttactt	gtagatcttt	ttgtgcctct	360
agcactcatg	cagcaacaag	accaatccct	ctttctcctc	agcctactca	atgtgaaggt	420
gacaaagatg	aagaccttta	tgacgaacca	tttaacataa	agaatagtaa	atatgtatta	480
cgattttctt	tttttctttt	ttttttgtag	ggcagggtct	tactatgttg	cccagactgg	540
tcttgaactc	ctggcctaatt	gtgatcttcc	tgccttggcc	ctccacaatg	ctgggatta	599

<210> 213
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 213						
agggtcgggt	tgcacagcat	cattgaatca	agtggattaa	atgtgttttc	tgcattctctg	60
agtcccttgg	aacctcctaa	ccacatacgc	ctgggtacag	agaaaggccc	agagacaccc	120
taggtccctt	cctagcgcgc	cttctggagg	aaggctacca	cagggaagaa	gtttccttgg	180
gcactttgta	tgtcactttc	cttctgggaa	gcagcctggc	acgggtgaaca	gcaagcatgg	240
ggtttacttg	acttgttgcc	ctgagcaagc	cactgatgtc	ccagcctagg	cctgcccacr	300
tgttcagtag	aagtgttgac	acagaggagc	ggaagaaaca	gggctgggtt	tgaatccagg	360
ctcaatcaac	ttgagcggat	tatttaatat	gtatgagcct	caatttcac	ctctataaag	420
ttgggataaa	actgcctact	ctccaggcct	gttctttgca	ttcaaaatta	gaaataaatt	480
tgcacgttga	atgtcctgct	cagcagatgc	ccaggaagag	gggcagtgat	tgtcattggt	540
actgatagcc	agtagagggc	accaaaccat	tctttaatga	aagcggcctc	ggttgtcct	599

<210> 214
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 214						
tctatagggg	gtccttccca	ttttgacctt	tttatgtctt	tctacaaatt	ccatttttga	60
cttgtccctc	cctagctcga	aacattctct	ctctcttttag	gatacaggtc	acatgcctca	120
ccccagcatt	caaggctctg	ctcagctagc	cccagtcac	ttccttaggg	tacttccctt	180
cttctccttc	acagattatt	tgttctggcc	agacagctgc	tctctgcatt	gcttccctgaa	240
cattctatat	acagttgcac	ctccatgcct	ttgcttgtgc	ccttcccttt	gccatttatr	300
ccctccctat	ttatttgat	gaacaacat	gagataat	gtggagttaa	tgaatttta	360
tgagcaacaa	ttatgcaccc	aactacatta	ggaggtaact	gcagaaaagc	acaaaggact	420
ctaattcaaa	gtatgcaggg	catggttcta	aggaaaaaat	aggcttggaa	tatgtcctaa	480
aaaaagagaa	tgtgtggga	atttgaggga	ggaagtaaaa	gtgtctatcc	atgaatatag	540
taaatatttc	catctattga	ggtcatcttt	attagtcttt	taacaatgtt	ctatcattt	599

<210> 215
 <211> 599

<212> DNA
<213> Homo sapiens

<400> 215
cctggaaacta actgtgctga ccacacagtt gtccaacaaa agtcatcaca tgatggtact 60
gcaaaaatat tattttatac ctgtttccta aaaaccagtc atactgacaa acactccaca 120
tacctgcctt cacaaatacc aaacttggct aaatctcaaa gtaaaagttc atctctcatt 180
cagaatgaag aaactgaaga taccttgtga actgagctgc ccaaggtcca tctcggcatg 240
aggagtaaac cgcacttcta aagtggccac aggagcctct gtcacccagg caggaaccay 300
gctgcgggga gctccatcag cccttccagc agggcagtgga ggggcatgg gctgtgtctc 360
tgccctgctt ccttgcaaga ctgctgctcc ttccactctt tctagcttct tgtctgtacc 420
tttctctgaa aagctcttct ctgggcaata tgggccaatt tgttcttctg ccacgctgga 480
actctgatca cgtcttgatt ccaaaccaaa atccactgct atctccctgt gcataggaaa 540
tgcttgctga attctggctg tgctactgtg tgtcaggtag ttttcttctg aagtctgt 599

<210> 216
<211> 599
<212> DNA
<213> Homo sapiens

<400> 216
acttcaattt cctcatccca aaaatggggg ataaattata ttacttaaga cagttaaggc 60
gattgtatga aatgagtgtg aaaatgtttt accgtactac ctggcaaaca gcagacactt 120
agtaaatatt gtttgttggg cacttgataa acgtctctca agttcctact gtgtgccagt 180
tggtgtgtta gctgcaaagg atgtggagat gagattctgt ctcttccttt aaggaaaggg 240
gatggtgtta ttttcttctt accagatgac aagttaatac tatttaaaac atgatttctr 300
ttaatttgtg ggagattgca tttttttccc catcagatca ttgtggtaaa ataacttgtg 360
ctcttttctt attccgtggg ttgttttgtt ttgttttcta taggattttg tttgtttttc 420
acaaaaatgg tcatttgcagc tgtaaggcaa aagtgcagcc tcctaggctg aatggtgcaa 480
agactggagt tttttccaca aggagccctc atcgtcccaa tgcaatagga ctgaccctgg 540
ccaagctgga aaaggtagaa ggtaacccat ttcatttcta cttttacctt tttcctcac 599

<210> 217
<211> 599
<212> DNA
<213> Homo sapiens

<400> 217
gttttctcat gtttcttgtc ttgaagacca ctttcttttt ccttctctgt gagaaaaatc 60
cctttgccag tccttcacca ggtgagtcct cacaggaatg agactaactc aaagtcaggg 120
aaatccatca tacaaaatac acctagcagg aatttctcaa agaccaagtc tagaatgtc 180
acgcagggcc tcagcagaaa cacatgaggt gagcttgggc actcaaaaga cagtcctctt 240
ctatgtgtct tcaccaaaat gaaatgaaaa tgccactggt tctccccacc acctcccaar 300
tggtaatatt tggaacacac acacactttc aaagctaaac aataattctc aaagccagtg 360
tagactctag actactagaa gacattttta caaatgcaca taatctgcac agattctccc 420
gcccacatgg atatccatct tatacgtgcc cttttttgct cacaccagtt ggaattgtgt 480
ttctatcact taaaatggta agagtcccaa ccagtgcacc tcatctccct gtattgggta 540
agaggcattc agccagccgg gcacggtggc tcacgcctgt aatcccagca ctttgggag 599

<210> 218
<211> 599
<212> DNA
<213> Homo sapiens

<400> 218
tgaaaccaca gctgcttcaa gaaccagac aggcatagca ttatacatgg actctggagt 60
cacacagacc tgggtttgaa tcttgccctt ctgcttctt gtgtggcctt gggcaggttg 120
catagcctgc ctggcactcc gtttctctcat ctgtgataca gggatgggtt gtaatgccac 180
ttacagagtc tttgtgaaca tttaaattaga taatagacac aaagtaccca gatgggtttt 240
ggcacatgat acctgctcag gaaattaaact cttagaatag catgtgaatc ccctagtctc 300
ccttcccagt gattctaaaa gtttaacaact tcagagttta catctgttat ctcccttagga 360
gcagagattc ttataatcct catttttaca gccaggaaac ggaggctcag ggaagtaaat 420
gtttttgaac cagggtattc agctaaggta agggcaatgg ttagcatggg ctccatcttg 480

gactctgggg	ggatagtgtg	tggaggggaag	gggcaactcc	ctggcagctg	ccaccacagt	540
gacctgctcc	cagtcctctt	ttgctgacat	tctgcctctg	gagttaagtt	tcagctgac	599

<210> 219
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 219						
gagggggtca	aggcaggttg	atcacaaggt	caggagtttg	agaccagcct	ggccaatgtg	60
gtgaaacttc	atctctacta	gaaatacaaa	aattagctgg	gcgtgggtgg	acatgcctgt	120
agtgccagct	actcaggagg	ctgaggcaga	agaatcgctt	gaacccagaa	ggtggaggtt	180
gcagttagct	gagatcatgc	cactgcactc	cagcctgggt	gatgggtgtg	gactccttct	240
caaaaaaaaa	aaaaaaaaaa	gtatggaaat	gtcaccacac	ccccctgact	gagagacaas	300
actcccatgg	atgatgggct	agtcacagaa	tgggctgggt	agctttggat	tgctttgcaa	360
ttaaattgcat	ggtaaaaatca	ttgcaactgtc	ttgttcatag	catttctcct	tttgggatct	420
gagatctggg	ctaaaaatga	aacccttaaat	attgggggaa	tccattttac	cttccaggtg	480
tgcttgctta	ttaggtccta	gaaactgctt	tctcaccct	gttctacaaa	gggctccact	540
ctaaagccag	taatccaatt	aagaaatata	aaaactggca	aatgaaaaat	cctacagct	599

<210> 220
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 220						
ggcagccagg	ccccaccac	ccattctcat	cattccacac	aaacgtgagc	ccctaccatg	60
aacaagatgt	tgcattggagc	actggcagaa	gcagagttag	ttgaagggtg	cttcctccca	120
ggactgcatg	gtcacagacc	ccagcaccag	caaagtatgg	tcattcaggac	cacaggaagg	180
gccagagatg	ggctatgggg	cactgggggtc	aggaagagtg	ccccatcttc	ctgaagggtg	240
atactggacc	tggtccttgg	agaataagaa	agatctgatg	aagcaaaacc	ctggaaggag	300
ggtatccaag	atgaagagaa	agtatgaggt	gcagtctgga	ggcaggaaag	atgggctgca	360
tcggaatcac	accaggtaga	atgggttggtt	ggttgaattg	ggaggtggag	ctggagaggt	420
atgtagggca	gatggcaaaa	ggccttaaat	tcaggccaag	gagagtggac	ttgattatgg	480
aggcaacaga	gactgaggga	caagagctgg	gattggaaag	aggccccaag	catatatgaa	540
gctcccctac	tcattgcctgc	cccacacctt	ttcatgggat	gttgtacagc	acactccca	599

<210> 221
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 221						
aattaattgt	ttcttttctc	tctcttccat	tccctccacc	cctaagaatg	caagcattgt	60
gagccccagg	ttcacatctg	tggctggctc	ccctgtatcg	cagttgtatt	tgcacaatgc	120
ccagcactaa	gtagctgctt	cataaaatga	gtacgcacat	gggggtagac	attgtgcaga	180
ggacttcaaa	ccattccaaa	tcttggaactt	ggagctcagt	ccaggtttca	ctgaaaactg	240
gaagtccagg	gaggcctaag	gggcatctag	attatagaac	ttctgaattt	tgaaaggatg	300
gcgtgggtcag	agggatcctg	gaggggggtg	caggagagaa	ggtgaggacg	agggcaggga	360
gtgggggatg	gcagcagacc	tgggtggaca	cctagcgagg	tgagtcattg	ctgggtgtcca	420
cttcctcatg	tacccacacc	cctcccagg	gaggacctgg	aggatgggtg	gagggatggg	480
gaagggagtc	tgaacggtac	agaaatcagt	cctgccactc	ctccagctct	ggactgggca	540
gagctgggga	aagctctcta	gcctcccaga	gctggactgt	cttcatgaaa	aaccaggct	599

<210> 222
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 222						
agtctctact	aaaaatacaa	aaattagcca	ggtgtgggtga	tgctgcctg	taatcccagc	60
tactcgggag	gctgaggcag	gagaattgct	tcagcccagg	aggcggacac	tgacgtgaac	120
caagatggca	ccactgaatc	ccagcctgtg	caacagagtg	agactctgtc	tcaaaaaaaaa	180

aaaaaaagtg	ttgggactac	aggcatgagc	acctgcacct	ggccagtcct	tttaaatact	240
gtactaaagg	gaagatgctg	at ttgggttg	caatacgctt	tcacactctg	ccatctgtgy	300
ggggatgcac	tgtggagtga	tgcaaagaac	tggcctccac	at ttggagag	cacgtctgag	360
ggggcaggag	acctctccat	gcctctcatt	tcattctaga	ccatttaatc	tgctgcaagt	420
gaaaactgat	tgactccttt	acattctaac	taggttttat	tat tttttgt	gaattttttt	480
gtgtctctag	gtatgagaga	acagaaatag	agatttgggt	ggcttttagct	gtttaaaata	540
aggtgaccaa	acctcctttc	tgctgtttcc	tgctatttca	aacaccactg	ttctccaca	599

<210> 223
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 223						
tggtaaataa	aatcagaaga	actttacatc	ataaaagtct	ggtaacatgt	cagtcttttc	60
cccaaatact	aaaaaagaag	agtgcattgt	ttctccgtat	ttccgaagtt	tcaactctgc	120
gccccctctgc	tttttcctca	gcccatattg	actcctgtct	tccttgaaag	tagctgcatt	180
gccacacttt	atat ttttatt	atatttcatc	ctctagtgtt	tcatgtctgt	gccctaacta	240
aaattgtaag	caccctaaga	ttgtgttata	aatctctgaa	tttttcctta	tactgccacs	300
ctagaacatt	aaagaccgct	tgatacccg	gaagt tctta	atggccattt	gattactcaa	360
atgttaacat	ttgtttcagc	taaatttatt	aaactgtttg	attgtctcat	actgtgaaa	420
tacctggatt	taataaaaaa	tattttcaat	ttatat tttct	ttagactact	atgctgccag	480
aaaaacacat	agttctctgg	gagagtagat	aaaggaagag	agggactaaa	gtctagtaac	540
ctaataataa	ggttgcaaaa	gacttgatgt	at tttttctat	atatgaggct	gagtgggta	599

<210> 224
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 224						
catggagtag	taccagtctg	tggcctgtgg	gttgaagacc	cctgaagtag	gaagacttaa	60
gaacagcaga	gtggcaagcc	tgtaagagca	agcgggtttac	agttttaaacy	cacagcatcc	120
taacttagct	tgtagacttc	aggaaatgct	tcccgggcca	ggttcagtg	ctcatccctg	180
taatcccacc	acttggggag	gctgaggtgg	gaggatccct	tgaggccagg	tgcttatgaa	240
ataggcctta	gctataaaatt	taatggaatg	cctacattca	aaaaatacac	gcgtgcgcay	300
gcacacaaac	acacactatt	ttcctcaata	gtaagaacat	ctagtagctt	ttttttttga	360
gacaccctgt	ctgtcttctg	agacggagtg	cagtggggaa	caatcatggc	tcactgtagc	420
ctcaaaactcc	taggttcaag	tgatcctccc	acctcggcct	ccagtcttct	gagtagctaa	480
gactccaggt	gtgcgccacc	acacctggct	aa tttttttt	ttttctat t	tctgtagaaa	540
caaggtattg	ccatgtttgcc	caggctagtc	tcaaaactcct	gggctcaagc	aatgcccc	599

<210> 225
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 225						
actgctgtag	cagcagggag	cctgcaccag	cacagacaca	ctgatgggac	gatagaaacy	60
agaatgtgaa	tgtgtaaacc	accagagcca	agagtatttt	at tttcttct	cagtggatc	120
atattctaaa	taatggatgt	ttttctctaa	tttttaactg	agaatgatca	aatgcatgc	180
attaggccca	ccttcctcct	catcctcctc	ttcatcttct	tcatcaagtc	caaattcttc	240
ttcctaaaga	atagcaaaaca	gcataacatt	aaattaattc	tgccaaattg	aaaagtgcaw	300
atagtacaaa	ttctgccaaa	ctaagaagta	caaataaatg	caacaatc	aatcaagcag	360
gaaactgtaa	tg tttttttt	atctactttg	atgtaccaag	accactgat	tttcttaac	420
gagctttata	at tttttctaa	gaaaaatttt	tttttagaagc	aagcagttca	tttgctagat	480
gtttaattag	tatataactc	tgataattc	aagaaaacat	cttaaaatct	caaatttcaa	540
aacagattta	gacaaaaatt	tcataatccc	attcatatac	aaagcttctt	tcagaactt	599

<210> 226
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 226
aatatctgta ggaaaaagaa aggcaactgta gcataagtaa gacttcaaag gatttagagt 60
cagatgacca cctggctgga tgctattaga cagattatct aatcttaaag agcctagtt 120
tcctcaccta tgagatgagg attgctactt tgtcaaacc acaaagccac tgtgagataa 180
ggtacgtgaa cactgtttac taactgtaaa gcactgcaca aacactagtt gccataaagc 240
ttatatagta atgtctacag tgctactgtg tttgcctttt aacctatctg acttgaccty 300
cccaattgaa acattaagtt ctttagggca tggatttcta ctttcatctg atttgtttat 360
cactatagct ctagcaccta ggacaatgtc tggcacatat tcagtgtctag aaaatatgtc 420
cctgaataat cataaaatct tctagtactt gctatccaag tttgttagcc attacaaatt 480
gataaaattc aaggtggatc agctactgaa tttttctgag aaaactacct aaggcccagt 540
tgagtacaat ccagtgggag agttcaagtt ctgggaaaga acaagcaaaa taactgtctc 599

<210> 227
<211> 599
<212> DNA
<213> Homo sapiens

<400> 227
atccactcaa ggtggggagg gatggcatca atgagtagtc tctgggcaag acaaagagca 60
gagagttacc ccttaacagt caggcctggt aagctttttt ttcagagctc actgaatgtg 120
accatactta cagagggttt tctgagttag gcctgctgga cttgcatcag aaattccctc 180
agagatcccc tccacatata caaacacaca caciaagaca agacggacag aaggccttcc 240
aaaccaagat ccctaaccac gaattccaag agtattcctt ccaaactatc ctattctccr 300
tctgagaagt ctccccgaaa tcttactgat tgaggagaag tctccagaac caagactctt 360
cctactaatt agggagagta aaccgagacc cctgaagaag ctgaaccaat tgggagaagg 420
aaaggggtgt tggcagcacc tagactactc accaaatcag acaccccata atggggctgc 480
agctgcagac aatccatgat ggggctacaa acagacactg tgataagggt acagttacag 540
gcaccccatg gtggagctac agaggggacac cttgccatgg agctctagtt atgagatat 599

<210> 228
<211> 599
<212> DNA
<213> Homo sapiens

<400> 228
ttttgaaatt ttgcttgtat gaaatgtctc tattctattc tttcatttag ctgggaattg 60
aattctaggt caaaaataat tttccttcag aattttggag gcaatgttcc atcatcttct 120
cacttccagt gttactttct gagaagtctt caatcactat aattgctgac catttttcta 180
cgtgacctgg ttttgcctgt tggaaacctc tagaatcttt tctttatcac cagtattctt 240
gtactttgca gtaattgttt tgtggagctt tttgtttgtt tgtttgtttt ttaatctatr 300
gacctgattc tcaaggattc tttcattctg gagacttatg cccttgggtt ctggagaaat 360
caatctcttt ttaaagaaaa taatttttca ccttcttttt ttcactgtct ggaagtacta 420
ttagtcaaat ttactgaatt cgtccttatt tttctttacat tttctccact attttcatct 480
ctttgccatt tgttttctat tttcggacag actgccttgt tgataagagg ataagtgcag 540
tctttcagat acatttttctt ttattatttt ggaaatcaaa acatttaaca ctactcaac 599

<210> 229
<211> 599
<212> DNA
<213> Homo sapiens

<400> 229
caatatgttt cttattaagt aaccacatcc attactactg tgcaggcacc atgccatagc 60
acttacctgc acagacaggc cttagaggct ctttattatg ttgtaaccag ggttggagtg 120
attatgctga taccttatga acattagccc catttatagg ggaatcttgc ccatgacaca 180
gatgaggtcg ctgaggctca ggaagatgac ttcccagagg accctgtgca gtgtgtccag 240
gacccgaatg ggagcccaga cctgggtgtg gcctcgggoc ttgctctcac ttcactgacw 300
tgaggccctt gaggtttggc actgatttgc atcagctcct acttgttacc aggattacgt 360
tctgtgccag gcacagagat gtatcagtag gtgagtgtat tgagaacaag gaagggacaa 420
gctagctaat gatttaatta agtacataaa ttgcatttag attgggagat gtctggcctt 480
gccacagcgt gcaggaagtc cttctcagag gggccgggct gcccagaggca gtttcagatg 540
tcccaaaggg agtgacactg caggcagggt ccctccctct tgcctgttgt gaccagggg 599