

342-42PCT.txt
SEQUENCE LISTING

<110> Ganymed Pharmaceuticals AG
<120> Identification of tumor-associated markers for diagnosis and therapy
<130> 342-42PCT
<140>
<141> 2008-10-22
<150> EP 07 020 730.3
<151> 2007-10-23
<160> 633
<170> PatentIn version 3.3
<210> 1
<211> 398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (274)..(274)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, t or u

<400> 1
aacataggtg gaccgctgct gagtccaggc ttacttgcag agatctatgc tggccaggcc 60
ctgtgctagg cagcagagga catggaataa aatcaaataa ggctactgtg tgcaggcacc 120
tcacggtgtg gtaaaggagc agcccatcc acagggttcta ttaattccag cctgtgagaa 180
ttggaaccac aggggtgaatt ttggaggaca ggcacttaca ctaatctgga agcataatat 240
ataaagagta cctacaaatc aataaaaaaa ananaaaaaa aanagcaaa gtatatgaac 300
agaaaattca atgaaaagga aatagaaatg gctcttaaag gaatgaaaac atactctcac 360
tcagagaaat gaaaatttaa cccatgtcaa gatacttg 398

<210> 2
<211> 99
<212> DNA
<213> Homo sapiens

<400> 2
atgcacagag catcacgtac aatggctcca tggacagccc agtgcccttg taccctaccg 60
attgcccccc ttcttatgag gcagtcatgg gactacgag 99

<210> 3
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 3
 aggagaaaac ctctacttgt cctgcttcgc ggaatctaac ccaccggcag agtatttttg 60
 gacaattaat gggaagtttc agcaatcagg acaaaagctc tctatccccc aaattactac 120
 aaagcataga gggctctata cttgctctgt tcgtaactca gccactggca aggaaagctc 180
 caaatccatg acagtcgaag tctctgctcc ttcaggaata ggacgtcttc ctctccttaa 240
 tccaatatag cagccgtgaa gtcatt 266

<210> 4
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (372)..(372)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (418)..(419)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (424)..(424)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (443)..(443)
 <223> n is a, c, g, t or u

<400> 4
 aaaggagtca tcagcgtctc tttcctggat tatatctggg ttacctaaag ctctgtagct 60
 ctgtggatca aatcaaagtt cttgttacct aaaagttgcc caacattctc tgccacgtga 120
 agatccgtga aaacaataat atttctagag aggaatggga atggatccaa aagctttctg 180
 gctctgaatc tatggaaagt gtggatcata cttctgactg ccccatgcaa ttgttcttct 240
 acgagctcca gatggcagtg aaagctctcc ttcagcagat caatatacct ctacaccagg 300
 caaggaactt ccgcctctac acacaggagg tggttgaaat gggtcacaat gtgtcctttc 360
 ttctcctgnt cncctgcctca gacgacgtct gtacagcccc aggacagaat aatccttnna 420

cccnacactc agggtttctt aanctccctc ttcagatggt tgaacttggt atagtagctt 480
gtttcaccta ga 492

<210> 5
<211> 133
<212> DNA
<213> Homo sapiens

<400> 5
ttcaaaaact gctggtgagc ctatggaaga ggagccagcc ttgtgaagtg ccaagtcctc 60
ctctgatatt tcctgtgtgt gacatcattg tgtatcccc caccacagta ccctcagaca 120
tgtcttgtct gct 133

<210> 6
<211> 371
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (178)..(178)
<223> n is a, c, g, t or u

<400> 6
ggtttcggcc tctgcgaaag tgaaatgccc aagcctccgg ccaaagccca gaccagtaca 60
gtatgaattg tcctatgaga ctgagggggt cggttcatt cctacctgcc cgcaaagctc 120
gccccagcc tcgaaaacaa agcgactggt ctgacgtggg gtccctgcgc ccctcctnta 180
gcgcgacagg accccccag ggaagagcca gtaccctggg gatgtcacc cgtccccatc 240
taccggggtg gggggcctga aaggagaacg atttaaaata atcttcagaa agaaaaggga 300
ggagggagcg ggtgacacat cgttcacata aacccaattt ctggtttcga gtgaagtcaa 360
gatctccgcc c 371

<210> 7
<211> 215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (153)..(153)
<223> n is a, c, g, t or u

<400> 7
ccatttaaca tgtatagtag gtcaacattg gtgcatccag aaaatgaagc atttaggaaa 60
tctgtttcag tgtcttttca atgtgtgtaa cttttacttg caaaccaatg gaaccaagaa 120
agtcacatt tgccataaat gcagtcacaa ccncaaatga ttcatttata ctatgtgagt 180

taattgcctt catctcatta atggccaagg aggga 215

<210> 8
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 8
 actgttcagt actgcaaccc caggatacac aatggcatct ggctctgttt attcaccacc 60
 tactcgcca ctacctagaa acacctatc aagaagtgt tttaaattca agaagtcttc 120
 aaagtactgt agctggaaat gcactgcact gtgtgccgta ggggtctcgg tgctcctggc 180
 aatactctg tcttatttta tagcaatgca tctctttggc ctcaactggc agctacagca 240
 gactgaaaat gacacatttg agaatggaaa agtgaattct gataccatgc caacaaacac 300
 tgtgtcatta ctttctggag ac 322

<210> 9
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 9
 ttacccttca ttcacctatt acggttcagg agaaaacctc gacttgtcct gcttcacgga 60
 atctaacca ccggcagagt atttttggac aattaatggg aagtttcagc aatcaggaca 120
 aaagctcttt atccccaaa ttactagaaa tcatagcggg ctctatgttt gctctgttca 180
 taactcagcc actggcaagg aaatctccaa atccatgaca gtcaaagtct ctggtccctg 240
 ccatggagac ctgacagagt ttcagtcatg actgcaacaa ctgagacact gagaaaaaga 300
 acaggctgat accttcatga aattcaagac aaagaagaaa aaaactcaat gttattggac 360
 taaataatca aaaggataat gttttcataa ttttttattg gaaaatgtgc tgattctttg 420
 aatgttttat tctccagatt tatgaacttt tttcttcag caattggtaa agtatacttt 480
 tgtaaacaaa aattgaaata tttgcttttg ctgtctatct gaatgcccc gaattgtgaa 540
 actactc 547

<210> 10
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 10
 gcaggggacg caccaaggat ggagatgttc caggggctgc tgctgttgct gctgctgagc 60
 atgggcggga catgggcac caaggagccg cttcgccac ggtgccgcc catcaatgcc 120
 accctggctg tggagaagga gggctgcccc gtgtgcatca ccgtcaacac caccatctgt 180
 gccggctact gccccacat gaccgcgtg ctgcaggggg tctgcccggc cctgcctcag 240
 gtggtgtgca actaccgca tgtgcgcttc gagtccatcc ggctccctgg ctgcccgcgc 300

342-42PCT.txt

ggcgtgaacc ccgtggtctc ctacgccgtg gctctcagct gtcaatgtgc actctgccgc 360
cgcagcacca ctgactgcgg ggggtcccaag gaccac 396

<210> 11
<211> 311
<212> DNA
<213> Homo sapiens

<400> 11
aaatgggtggg gtttgactgg tatatgacct tcctctggag gtgatcaacc agtaagggaa 60
aatcgctcca agtgagcatg cacacaacct cagtaaacac actgtgcatg tggcttctcc 120
caagtactag caggccactg cacatgtcac aactgagcaa cagcccaccc caatggaggg 180
atcaagggag gagaagaaaa accccggaac caaaagccag ttataaaaa tcctgagcca 240
aaggctgagg ggggcacttg atctctcaag ttccctactt ggccctcttc caagtgtgat 300
ttgcttcttt t 311

<210> 12
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (184)..(184)
<223> n is a, c, g, t or u

<400> 12
gccttagccc ccgggattta gagcctctc gcgaccaccc ggaggcttct gggggccact 60
ctgcggatga ggaagctgac gcctgggtgc agaaccctcg acccccgat tcagagccca 120
gggtccagccg cgcttcgcga caaacttgcg ctcgagcaa gtccctctct tcccagcact 180
catntgagac cagaggtgtc cccaccgtcc ccgctagcag cgctggttat attgtgggcc 240
aacctt 246

<210> 13
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (149)..(150)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (153)..(159)
<223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (161)..(163)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (165)..(165)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (168)..(184)
 <223> n is a, c, g, t or u

<400> 13
 ccttttgctt gagcagggtt cccaggaggg agaaagagaa gacaagagcc tgatgcccac 60
 ctttgtgtgt gtggggacgg gggagtcagg gccccccaag tcccacaata gcccacatgt 120
 ttgcctatcc acctccccca agccccttnn ccnnnnnnnc nnnnacnnn nnnnnnnnnn 180
 nnnnctgctg ctgctgctgc tgctgcttaa aggtcatgc ttggagtggg gactggtcgg 240
 tgcccagaaa gtctcttctg ccactgacgc ccccatcagg gattgggcct tctttcccc 300
 ttcctttctg tgtctcctgc ctcatcggcc tgccatgacc tgcagccaag cccagccccg 360
 tggggaaggg gagaaagtgg gggatggcta agaaagctgg gagataggga acagaagagg 420
 gtagtggggtg ggctaggggg gctgccttat ttaaagtggg tgtttatgat tcttatacta 480
 atttatacaa agatattaag gccctgttca ttaaga 516

<210> 14
 <211> 162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n is a, c, g, t or u

<400> 14
 gagcctagag agtaaggaac gttatatagt tttccccaaa ggttcacttg aaagaacttt 60
 tcattgggtg tcatggtagt aatgtcctga tnttgaaatc tcccagaacc tagtagctct 120
 taaacatgct ttcacttggg ttcctttggg ctgacggaaa ct 162

<210> 15
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, t or u

342-42PCT.txt

<400> 15
 tttgcaaaag gtttccggga cactggaaat ggccgaagag aaaaaagana acagctcacc 60
 ctgcagtcca tgagggtggt tgatgaaaga cacaaaaagg agaatgggac ctctgatgag 120
 tcctccagtg aacaagcagc tttcaactgc ttccgccagg cttcttctcc agccgcctcc 180
 actgtaggga catcgaacct caaagattta tgtcccagcg aggggtgagag cgacgccgag 240
 gccgagagca aagaggagca tggccccgag gcctgcgacg cggccaagat ctccaccacc 300
 acgtcggagg agccctgccg tgacaagggc agccccgcgg tcaaggctca ccttttctgt 360
 gctgagcggc cccgggacag cgggcggctg gacaaagcgt cggccgactc acgccatagc 420
 cccgccacca tctcgtccag cactcgcggc ctgggcgcgg aggagcgcag gagcccggtt 480
 cgcgagggca cagcgcggc caaggtggaa gaggcgcgcg cgc 523

<210> 16
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 16
 actcggtcac actcagtaag tccttgcaga gtccatgggt ttcttcgaca agtggcttca 60
 aggaagggaa ttcccacct tgtcttccag caaggccaca cacatgaaac cagcagaaaa 120
 gagtcttatt tgctggaaag acccccagca agggcatagt gagcccttac agtgggttcca 180
 gtcagaaaag gcaccacttg ggtgggcaca gcccctatggg tgtccaactt ggtaagcaga 240
 gcaaggctgg acttgagtcc ccgtcctcca caaacacag agccacaagc cccagccctg 300
 cagcagccct ccggaagcag cggggcactg gtttccttgt cccctgccat ctaccgagtg 360
 gctcactctc aggtgggagt gctgggtgatg gttaattagg actgcagaaa catgagcctc 420
 cttta 424

<210> 17
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 17
 ctatctttct ggtcacattg tcggtgtttc tgcattgtct ccattccgct cctgatgtgc 60
 aggattgcc agaatgcacg ctacaggaaa acccattctt ctcccagccg ggtgccccaa 120
 tacttcagtg catgggctgc tgcttctcta gagcatatcc cactccacta aggtccaaga 180
 agacgatgtt ggtccaaaag aacgtcacct cagagtcacac ttgctgtgta gctaaatcat 240
 ataacagggt cacagtaatg ggggggtttca aagtggagaa ccacacggcg tgccactgca 300
 gtacttggtta ttatcacaaa tcttaaagtgt tttaccaagt gctgtcttga tgactgctga 360
 ttttctggaa tggaaaatta agttgttttag tgtttatggc tttgtgagat aaaactctcc 420

342-42PCT.txt

ttttccttac cataccactt tgacacgctt caaggatata ctgcagcttt actgccttcc 480
tccttatacct acagtacaat cagcagtcta gttcttttca tttg 524

<210> 18
<211> 538
<212> DNA
<213> Homo sapiens

<400> 18
gtagggcgaa ctctgctata cagtttatga tgtcagagtg aatactttct ttgagttgca 60
gtcagaaact gtagatTTTT aaaaatttaa aattcattat tctctgtcag tattccaaag 120
tgtatacaga aagctattgc actgttcagg agatggcgct taacattttg gaaattcaag 180
gtgatgaatg tccagataag actatctctc ctggtacaaa gtttgacaat gctgaacatt 240
tttaaagggt ctttttgata taaaagtgc accaatgagt gctttttaat tcttacaata 300
attctgggtg aggtaggtat ttttccaatt cccattttat gcttcggtag ccctttgtat 360
ttataacttca aaacacttgg ctctcttgta attatttaag aaattagttg tgattatttg 420
tttaatgtgc aggagttaca aaaggcaagc tttagaacaa gacagacctg gttatgattc 480
ctggctctga aagctgtaca ccctgtgacc ctagacaggt gttttaatgc ctcgctgc 538

<210> 19
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (294)..(295)
<223> n is a, c, g, t or u

<400> 19
tcttggctct ctgctcatgg atgacgcacc agtcgtgcat gttcttgggtg aagtcggcca 60
gcctgagcaa gcggaggacc tacgccggcc tggcattcca cgcctacggg aaggcaggca 120
agatgctggt ggagaccagc atgatcgggc tgatgctggg cacctgcacg gccttctacg 180
tcgtgatcgg cgacttgggg tccaacttct ttgcccggct gttcggggtt caggtgggcg 240
gcaccttcgg catgttctct ctgttcgccc tgctgctgtg catcgtgctc ccgncagcc 300
tgcagcggaa catgatggcc tcca 324

<210> 20
<211> 414
<212> DNA
<213> Homo sapiens

<400> 20
agaaagcaga gcagcctcct ggaagaaggc cttgtcagct ttgtctgtgc ctgcgaaatc 60
agaggcaagg gagaggttgt taccagggga cactgagaat gtacatttga tctgccccag 120

342-42PCT.txt

ccacggaagt cagagtagga tgcacagtac aaaggagggg ggagtggagg cctgagaggg	180
aagtttcttg agttcagata ctctctgttg ggaacaggac atctcaacag tctcaggttc	240
gatcagtggg tcttttggca ctttgaacct tgaccacagg gaccaagaag tggcaatgag	300
gacacctgca ggaggggcta gcctgactcc cagaacttta agactttctc cccactgcct	360
tctgctgcag cccaagcagg gagtgtcccc ctcccagaag catatcccag atga	414

<210> 21
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 21 caaagtcatt tgaacttccg tttccccagg gcctccagct gccctcagac actgatgtct	60
gtccccaggt gctctctgcc cctcatgccc ctctcaccgg cccagtggcc cgactctcca	120
ggctttatca aggtgctaag gcccgggttg gcagctcctc gtctcagagc cctcctccgg	180
cctgggtgctg cttttacaaa cacctgcagg agaagggcca cggaagcccc aggctttaga	240
gccctcagca ggtctgggga gctagagcaa aggagggacc tcaggccttc cgtttcttct	300
tccaggggtg ggtggcctgg tgttccccta gccttccaaa cccaggtggc ctgcccttct	360
ccccagaggg aggcggcctc cgcccattgg tgctcatgca gactctgggg ctgaggtgcc	420
ccgggggggtg atctctgggtg ctcacagccg agggagccgt ggctccatgg ccagatgacg	480
gaaacagggg ctgaccaagt gccaggaaga cctgtgctat aaaccacct g	531

<210> 22
 <211> 522
 <212> DNA
 <213> Homo sapiens

<400> 22 atgtcctgcc atttggatcat aagacagttg catttactct gctaccattg cttcagttga	60
tatgaagaga gaaagctgtg ttgtgattta cactggatat ggaaatagag aggaacaaat	120
ctgtctgata tactttcttc aacctctgta gtagctaata atataggaca gaatgctcca	180
aagaatgaaa atgaaagtca agattcaatg gatgaaagtg agaactcctc caggctcctgg	240
aaacaaacca tttagcatca ggtcagaagc tactccatgg aattctgaga ccacgaaagc	300
caggtcaggt ctcaaattca gtagccacc acccacacca ccacccacac caccctgctt	360
cccctcatgc ttgctgcctc catttccttc tggaccacca ataattcccc caccacctcc	420
cacaggtcta gattttcttg atgatgttaa tgttttatga agtatgctaa tctcttggtg	480
cattaagtgg ctatcatact ggctattata cagggctcaa gc	522

<210> 23
 <211> 520

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (142)..(142)
 <223> n is a, c, g, t or u

<400> 23
 gaaaggcctg caattgtgtc ttcacgatgc ttttccaaga cagccaaggc aggtataatt 60
 ttcctcagca agaaagagga acctcggagg tgtgcacngc ctggctggcc acccaggtat 120
 tggcaaaagt gactgtcggg cntgctggcc cggccccgc cggcgtccc tggagcactc 180
 acgatgcggt ccggcggcgg cgtgctccgg atgaagcact tgatctggcc cttctcgccg 240
 tggagggcgt gctgggtctg ggtgctggag atgatggggg gtctgttga gaaacagcgt 300
 cccattagga acccggaag ggcacgtccc tgctggcgcc ctcttgggtg gggttcagaag 360
 tgtattcatt aatccaagca ttcagcaaac atttgccgaa ggctgtatg tgcaaggtaa 420
 agtgcaaggc agaggactca gagataaatt aggcattcag tcataaacct ctcaagggat 480
 catgagcgaa tgcttctaag tcagaacccc cagaagatac 520

<210> 24
 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 24
 agcagaacct cctaggggtt ctccttccac tccttgccat gatcttcttc tactcccgta 60
 ttgggttgtgt cttggtgagg ctgaggcccg caggccaggc cggggttta aaaatagctg 120
 cagccttggt ggtggccttc ttcgtgctat ggttcccata caatctcacc ttgtttctgc 180
 atacgctgtt ggacctgcaa gtattcggga actgtgaggt cagccagcat ctagactacg 240
 cactccaggt aacagagagc atcgcccttc ttcactgctg cttttccccc atcctgtatg 300
 ctttctccag tcaccgcttc cgccagtacc tgaaggcttt cctggctgcc gtgcttggat 360
 ggcacctggc acctggcact gccaggcct cattatccag ctgttctgag agcagcatac 420
 ttactgccct tgaggaaatg actggcatga atgaccttg agagaggcag tctgagaact 480
 accctaac 488

<210> 25
 <211> 552
 <212> DNA
 <213> Homo sapiens

342-42PCT.txt

<400> 25
gaggagagac ctgcgtggga taatcaacag gggctctggag gacggggaga gctgggaata 60
tcagatctga ctgcgtgttc tcacttcgct tcctggaact tgctctcatt ttcctgggtg 120
catcaaaca aacaaaaacc aaacaccag aggtctcatc tcccaggccc caggggagaa 180
agaggagtag catgaacgcc aaggaatgta cggtgagaat cactgctcca ggctgcatt 240
actccttcag ctctggggca gaggaagccc agcccaagca cggggctggc agggcgtgag 300
gaactctcct gtggcctgct catcaccctt ccgacaggag cactgcatgt cagagcactt 360
taaaaacagg ccagcctgct tgggcgctcg gtctccaccc cagggtcata agtggggaga 420
gagcccttcc cagggcaccc aggcagggtgc aggggaagtgc agagcttggtg gaaagcgtgt 480
gagtgagggg gacaggaacg gctctggggg tgggaagtgg ggctaggtct tgccaactcc 540
atcttcaata aa 552

<210> 26
<211> 511
<212> DNA
<213> Homo sapiens

<400> 26
aagcctcaag gcacttctag gacctggctc ttctcaccaa gatgaactca ctggtttctt 60
ggcagctact gcttttcttc tgtgccaccc actttgggga gccattagaa aaggtggcct 120
ctgtggggaa ttctagaccc acaggccagc agctagaatc cctgggcctc ctggcccccg 180
gggagcagag cctgccgtgc accgagagga agccagctgc tactgccagg ctgagccgtc 240
gggggacctc gctgtccccg cccccgaga gctccgggag ccgccagcag ccgggcctgt 300
ccgcccccca cagccgccag atccccgcac ccaggggcgc ggtgctggtg cagcgggaga 360
aggacctgcc gaactacaac tggaactcct tcggcctgcg cttcggcaag cgggagggcg 420
caccagggaa ccacggcaga agcgtgggc ggggctgggg cgcaggtgcg gggcagtgaa 480
cttcagaccc caaaggagtc agagcatgcg g 511

<210> 27
<211> 131
<212> DNA
<213> Homo sapiens

<400> 27
ctcctccagc aagacagatg cctagcccgt cctcaggaat ctgccgccag ggagaatggc 60
aaccttgccc agatagctgg aagcacaggg ttgctcttca acctgcctcc cggctcagtt 120
cactataaga a 131

<210> 28
<211> 304
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (84)..(84)
 <223> n is a, c, g, t or u

<400> 28
 tttcctctga gagaacagcg gtcttctgtc tgctgtggca nagcaagtca cttcttcttg 60
 tagtgagaac tgaaaccaga accnatcatg tgccacttcc tggacacctc ctattaaata 120
 tttaaagtctc ctcaccacag aagccggagt ttagtgggta ggggcacagg ttcttagata 180
 tgaacatcag ttgcaacctc ccaactgcat gctcttggac aatttacatt tctgtgtatc 240
 agctttcctt tttctttaga atgagatatt aatagtagca acccagaatt gtcatgaagc 300
 ctaa 304

<210> 29
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 29
 catggcaaag gcttgcccca aatctcaact tctcagacgt tccatacccc cacatgccaa 60
 tttcagcacc caactgagat ccgaggagct cctgggaagc cctgggtgca ggacactggc 120
 cgagagccaa aggtccctcc ccagacatct ggacactggg catagatttc tcaagaagga 180
 agactccctt gcctccccag ggcctctgct ctctgggag acaaag 226

<210> 30
 <211> 567
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (195)..(195)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (216)..(216)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (226)..(226)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature

<222> (255)..(256)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (261)..(261)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (313)..(313)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (333)..(334)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (356)..(356)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (411)..(411)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (471)..(471)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (473)..(473)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (492)..(492)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (497)..(500)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (503)..(503)
<223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (510)..(511)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (513)..(513)
 <223> n is a, c, g, t or u

<400> 30
 ggccaccaga ggattctcag ggctcctttg tcttggactg tggaactggg ggcagctggt 60
 ccctgggggc tctgaagtca gtgtctccct cactgctcac tgccatgggtg tctctgcctc 120
 tgcttctctg tgtccctcat cttcctccca cttcattctg actggcaagc cctgtcctgc 180
 acagcttctt ccccnacccc taggccttcc ccaganactc cctctnacta ggctggctgt 240
 tctgttccct tcccnctaa nactgtggcc tggccacact ccnaggaaa taggaaaggt 300
 gcagaaatca cnttggagtt gccactcttg ccnnggcttc atctcgagcc aatgtnccca 360
 ggtcactaag agaatgagct tccactgtat tcccatccag ggctctttcc ntttgtgagg 420
 ctgacctgtg gacaagacaa tgggacaggg ataggcagtt cctccatcca ntntcataat 480
 tgccaggcaa gntctttnnnn ccncctgcan nancctcccc agtggatcag gggttagaga 540
 tattcaaggg tagtttcagg agcacag 567

<210> 31
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (96)..(97)
 <223> n is a, c, g, t or u

<400> 31
 taatgctggac gtaccgactg ccagatcttt aactcaccc ctccacctgc cccgaggagt 60
 ccggtcacaa gggcccagcc antcaciaag acaccnnggt gtcccttcca tttttttcca 120
 cgaaggccca gaatccattt taggtttcca aacagacctt tcgtcccttc aagggtgtaac 180
 caccgttttc cattccagcc attttattgg ccacaccgtt accttactta taggtatttc 240
 cccagaagaa gactccagag aggaagctca tctgaggaaa gctgagaggg aagagaaacc 300
 caaacatact gaagcaaaaa aaagcctatc cttcagaaaa aagcaacaaa aagattttctg 360
 ttttatcttt cgaaactaaa actattggat ttgaagatta agtatcctaa acatcactga 420
 ctagaaactg ttctctttgt cagcagtg 448

<210> 32
 <211> 396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (141)..(141)
 <223> n is a, c, g, t or u

<400> 32
 agtgtgcatg ttcactgggc atcttcctt cgacccctt gccacgtgg tgaccgctgg 60
 ggagctgtga gagtgtgagg ggcacgttcc agcgtctgg actctttctc tcctactgag 120
 acgcagccta taggtccgca ngccagtcct cccaggaact gaaatagtga aatatgagtt 180
 ggcgaggaag atcaacatat aggcctaggc caagaagaag ttacagcct cctgagctga 240
 ttggggctat gcttgaacct actgatgaag agcctaaaga agagaaacca ccactaaaa 300
 gtcggaatcc tacacctgat cagaagagag aagatgatca ggggtgcagct gagattcaag 360
 tgccctgacct ggaagccgat ctccaggagc tatgtc 396

<210> 33
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 33
 cgggtggcttg caacatgctc atgccagagc ccgctcaacg ctggctgggtg ggcttcgtgt 60
 tgtacacatt tctcatgggc ttctgtctgc ccgtgggggc tatctgctg tgctacgtgc 120
 tcatcattgc taagatgcgc atggtggccc tcaaggccgg ctggcagcag cgcaagcgct 180
 cggagcgcaa gatcacctta atggtgatga tgggtggtgat ggtgtttgtc atctgctgga 240
 tgccctttcta cgtggtgcag ctggttaacg tgtttgtctga gcaggacgac gccacggtga 300
 gtcagctgtc ggtcatcctc ggctatgcca acagctgcgc caaccccatc ctctatggct 360
 ttctctcaga caacttcaag cgctctttcc aacgcctcct atgcctcagc tggatggaca 420
 acgccgcgga ggagccggtt gactattacg ccaccgcgct caagagccgt gcctacagtg 480
 tgga 484

<210> 34
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 34
 tctgacttcc agaacctacg ataatagact ccatgaaatc tgtaatcagt ggccacagga 60
 aactcatgca acagcccttc caaggggctc ccagcaaag cctccgtggt gtctgcccc 120
 aaccctgtg cctcctggga cacaagacag gccagcaaag ggtgggggtg ccacggaaag 180

342-42PCT.txt

cttgggtggct gggcaggtcc ccagagggcc gccatcagtc ctcaaagaca tgctcagatg 240
cagtgggtca ggcctggcac cagctgggtcc caaggtgggg tggtgagggg acatctgctg 300
tgcacacgtg gctggacgcg ctgggggcag gtccaggtca gtttcaagga ctctgcccag 360
gctaacccta gaggcctcta gtgccagcag tta 393

<210> 35
<211> 493
<212> DNA
<213> Homo sapiens

<400> 35
aggcccatgt gctgtttttg acttcagtac ttcagattgc tgtgggaaca caggagggcag 60
cagccagatg agaaattgag tctgactctg gagtattata aagtccttat agttactggc 120
attaggtata gggctctgtat tattaagag aaattattca ccaaactt gttaaaaatg 180
gcaagacagt ttatttaaga gcattgcaat aggtaagtgc tatgggtctca atgtttgtgt 240
ctccctcaaa ttcataagtt gaaacttcac ttccaagatg aaggaattag gaggtgggca 300
ctttaagggg tgattatgtc ataggccaga gccctcatga acgagatcag tgcccttcta 360
aaagaggcat tgggagagac ccctcacctt ttccatcata tgaggacaca gccaggaagc 420
atcatccacg aaccagaaaa ttggccctta ccagacactg aatctgctga tgtcctgacc 480
atggacttct gag 493

<210> 36
<211> 336
<212> DNA
<213> Homo sapiens

<400> 36
acgctgcagc gtcacattaa tctttgtgcc gccagtgcct atgccatgct tagtatgcat 60
caaatatattg agcagtacac aagtgagtag tctgagagct cccccacca aaaatatgat 120
gattaaatac agttatgata agatccccag agtgtggctc taaactgtat gggggccaag 180
tttgaatact gttgtgtctt acactgttat tacctatcca gtatctatct ccccatatct 240
cttataaata aaacctagat tttgattggg acagtaaggt gtccactga aaactcattt 300
ctctaaccac tgtgatgcca gtgcttgccc aaaaag 336

<210> 37
<211> 507
<212> DNA
<213> Homo sapiens

<400> 37
gtgagtgaac gtgaaggcct gcagcattac tgtacactac catagatttt tatcaaacact 60
gtacacttag ggacactaaa cttattttaa cattttttct tcaaaaataa attaacctca 120

342-42PCT.txt

gctcactgta actttataag ctttatattt aaaaaaactt ttgactcctt ttgtagtaac 180
 acttagctta aaacacaaac acattgtaca gttacacaaa atattttcctt aaaaaatatt 240
 ttattatatac ctattctata agcttttctt tggtttttcac ttttttttaa ctttttaaact 300
 ttttataaaa actaagacac aaacacacac attagtgcag gcctgcatag catcaggatc 360
 atcagtatca ctgtctccca cctccgcac ttgtcccact gaaaggtcct cagcggggaat 420
 atcatgcatg gagctgtcat ctctctgtgat aacaatgcct tcttctggat acctcctgaa 480
 ggacctgggt gagcctgttt tacagtt 507

<210> 38
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 38
 gaatccctta agcagaacaa ccgtgatgcc atggaactca agcccaacgg cggtgctgac 60
 caaaaatgtc tcaaagtcaa cagcccaata agaatgaaga atggaaatgg aaaaggggtg 120
 ctgcgactca agaataatat gggagcccat gaggagaaaa aggaagactg gaataatgtc 180
 actaaagctg agtcaatggg gctattgtct gaggacccca agagcagtga ttcagagaac 240
 agtgtgacca aaaaccact aaggaaaaca gattcttgtg acagtgggaat tacaaaaagt 300
 gaccttcgtt tggataaggc tggggaggcc cgaagtccgc tagagcacag tcccatccag 360
 gctgatgcca agcaccctt ttatcccatc cccgagcagg ccttacagac cacactgcag 420
 gaa 423

<210> 39
 <211> 365
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (244)..(244)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (253)..(253)
 <223> n is a, c, g, t or u

<400> 39
 ttactctgtg attaacttcc ttctccctca ccccaaaata cagaagagtg aaatctctga 60
 ccagaaagtt cctggcacct accttgggtt ctgtgaaaaa ataatggccc tggttttcaa 120
 tgctgccaaa gttaagaaaa gttttcaccc cttcatttta aagcagccat aaagtgccat 180
 gtgtttaacc gcaggaaaaa aagggtcttt ttaactattg agaagtagct tttcatatcc 240
 ccancagggg aangaaagag cggaaccag gagactcgtg aggactgcaa agatgggtcct 300

342-42PCT.txt

ccctgggtac ttctgctgct ctcttctctc cagagctact ttgtgattgg cctgatggtc 360
agacc 365

<210> 40
<211> 389
<212> DNA
<213> Homo sapiens

<400> 40
gatggagcat catgggttgg attattactg agttcaataa tctgggtgggt tttgccagct 60
agaaacataa taaaatacat gataaaggaa tagaaaggaa atatatttat ttgaaattaa 120
attactgctt ataaattcat gtctctgatt ttacaaagtg taatgggtaa aattaccata 180
ttctttttct tatttcaatc catacaatga gagtcatgtt cagtttttca ctgacttcat 240
gctgggtaat gttcactctg cattagcggg tgccatgttc accgttttct tacaatgtct 300
atccagtgtc tgttactgtc tcaactgacag acagaagtct agctgttttc atccacataa 360
tggcaggcag ggctagtgtt gctgctgct 389

<210> 41
<211> 537
<212> DNA
<213> Homo sapiens

<400> 41
ttatgtccct gctgggtatct ttgctttttc ataaaaatta tcatttattt ttctcaactg 60
catattgcc a tcttcatttt ttaattttct cacatattca tagaattgtt ctctgtaata 120
gatactgtac agtaattatt tgttgatcga ttaacctttt caatgctact tccgacacct 180
acttcccatc ctccgtgtaa cagatactgt cagttacctt tccttaacag cctttccact 240
cccaacttct gtgaatggac aagagatgca attgtgatca ctgaacatga ggcaacatct 300
tctaggaaga catttccata gtcttcagac aaaagggaga gatatctttt cagacaatct 360
ttgaacaatc ctatatgaag cttacctgaa gttgctgtag ccgtttggca agtctgggga 420
gactaacaga cacttgagg atagcagaaa ataaagatag aaacagccca gggttttggt 480
gaaattcatg agcttctgaa taacgaacct cataccacct tacctctata aaagaat 537

<210> 42
<211> 351
<212> DNA
<213> Homo sapiens

<400> 42
tggatcccag catcggtggc aatagggttt taggtggagt ctatctggca ttcagagaag 60
agtcaggaaa acaattgtat tccagcctg tgtccctagg gcacaagcaa atcccaaatt 120
ctcctcctga accctccaaa tttgtctaag aacttcgaaa actttaacaa acaggctgat 180

342-42PCT.txt

atcttcataa tattcccagc ctagaccaag caggaagaac attgatttca ttgaaataat 240
 tgataataat gaagataatg tttttatgat ttttatttga aaatttgcta attcttttaa 300
 tggtttgttt tctacattga tggaattttt ctcttttaaat ctatctacag c 351

<210> 43
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 43
 tctgtttatc ccccaaatta ctacaaagca tagcgggctc tatgtttgct ctgttcgtaa 60
 ctcagccact gggcaggaaa gctccacatc gttgacagtc aaagtctctg cttctacaag 120
 aataggactt ctctctctcc ttaatccaac atagcagctg tgatgtcatt tctgtatttc 180
 aggaagactg gcaggagatt tatggaaagg tctcttaca ggactcttga atacaagctc 240
 ctgataactt caagatcata cactggact aagaactttc aaaattttta tgaacaggct 300
 gataccttca tgaaattcaa gacaaagaag aaaaatactc aatgttattg gactaaataa 360
 tcaaaaggat aatgatttca taattttcta tttgaaaatg tgctgattct tggaatgttt 420
 cattctccag atttatgaac attttttctt gagcaattgg taaagtatac ttttgtaaac 480
 aaaaattgaa acatttcctt ttgctctcta tctgagtgcc ccagaatt 528

<210> 44
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 44
 gggacacacc agcacagtct ggtaggctac agcagcaagt ctctaaagaa aggctgagaa 60
 caccagaac aggagagtcc aggtccagga tggccagcct gttccgggtcc tatctgccag 120
 caatctggct gctgctgagc caactcctta gagaaagcct agcagcagag ctgaggggat 180
 gtggtccccg atttggaaaa cacttgctgt catattgccc catgcctgag aagacattca 240
 ccaccacccc aggaggggtg ctgctggaat ctggacgtcc caaagaaatg gtgtcaacct 300
 ccaacaacaa agatggacaa gccttaggta cgacatcaga attcattcct aatttgtcac 360
 cagagctgaa gaaaccactg tctgaagggc agccatcatt gaagaaaata atactttccc 420
 gcaaaaagag aagtggacgt cacagatttg atccattctg ttgtgaagta atttgtgacg 480
 atggaacttc agttaaatta tgtacatagt agagtaatca tggactggac atctcatcca 540
 ttctc 545

<210> 45
 <211> 166
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (35)..(36)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (38)..(41)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (43)..(45)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g, t or u

<400> 45
 tgctgtttgt gtgaaacctc cactgtgccca agcannannn nannngactg tgaatanttt 60
 aacattttatt cacagatagc atgaaaagcc acagtccatt tgccatttag cttatttgat 120
 tgagagaaaa ctgaggcaca ggaaggcaca gtgactgagc aagagt 166

<210> 46
 <211> 205
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, t or u

<400> 46
 ggatcagtct taagaggagc tttttttngg agcgagaaat catataaaat aaaatgaaat 60
 aaaacaagga ggaaggcaac cagctgttag gggaaaaata aggcagataa aggagcgggg 120
 agagaaatta attgccaacc aggaggagtt gggctgtatt tttcaaaggt ggggagagtg 180
 gagcacacac cttgaggagg aaagc 205

<210> 47
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (68)..(68)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (132)..(132)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (193)..(193)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (207)..(207)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (213)..(213)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (219)..(220)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (242)..(242)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (260)..(260)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (267)..(267)

<223> n is a, c, g, t or u

<400> 47

gaaccatttg agattcaatg cctgtgtcca gctcccagga gtccaaccgt gaaatccaca 60

agtgcagncc ccaccctgtc ctgcagttct ctttccctta tgataatgtg gttgagtcct 120

ttgtcactcc cntcctcctg ctggctgcag aaatgacctc agcccaggcc agagacccca 180

gctctggcaa ggnccctctg tggtcgncca ggncccaggn tgaaagccaa gcagaatcag 240

gncaggatct ctagcgggan gggaaancct gataggacct ttgtcagact ttg 294

<210> 48

<211> 432

<212> DNA

<213> Homo sapiens

<400> 48

acatttaccg tattacctag cacttttcatt ccttggtgtc tactccaaag gaaaaaaacc 60

tatgtccaca caacacatga atgtgaatat tagtagcagc tttatccata atagtccata 120

aagtagaaac acatcaaata tctatcagct gatgaaagaa taaacaaatg ggagtgatcc 180

atacaattta atagaatcta gcacctaaaa aaataaaaata ttgatacgtg ctacaacaca 240

ggtgaaccac aaaagcacat taatctaagt gaaagaagac agatacaaaa aaccacatgt 300

tgtatgactc tatttttatg atatccagaa aagacaaatc tgtagtgtca gtaagtcaat 360
taggggttgt ctggagctgg ggagtgggaa taaggggtgg tattgatgag catgagggat 420
ttcttaggaa tt 432

<210> 49
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)..(54)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (79)..(79)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (103)..(103)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (168)..(168)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (498)..(499)
<223> n is a, c, g, t or u

<400> 49
gtgaatccta gagtagtttg ctatcaactt ctgatctttg cacattctgg attnggcata 60
taatgtnaca gcagtgcna ttgtaatggt gcacaaagta gntagcaat ttcttggttc 120
accaggntta gagataacat tgtagaaatg atccagcatc tttaacantc tgtgggttaa 180
ggtagggcac ttaggggtag aatcaataac aatggttagaa atcaaattag acaagataac 240
tgaaacagca tgatccatgt gtgactccaa gttataaagg aggacatgga ttaatggtat 300
acttctagga tataggggta gtacaagtgg aaggacacca tcttagcatc agatcacttt 360
ctgagcaact ttggcaaatac ttttaaattc tctaattgtgt agttttttta tatatgacac 420

342-42PCT.txt

aggtgtaaag aaaataaagc aagtgaatgt atgtgaaagc caatgctgac tgggcacggg 480
 ggctcacgcc tgaaattntt agcacttttg gaggcagagc cggggatata acttgagccc 540
 a 541

<210> 50
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (67)..(69)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (86)..(86)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (191)..(191)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (285)..(285)
 <223> n is a, c, g, t or u

<400> 50
 tcacttacac gctggccagc aaggagatgc ggcgggcctt cttccgtctg gtctgcaact 60
 gcntngnnng gggacggggg gcccgngncc tcacccatcc agcctgcgct cgacccaagc 120
 agaagtaaata caagcagcag caacaatagc agccactctc cgaagggtcaa ggaagacctg 180
 cccacacag nccctcatc ctgcatcatg gacaagaacg cagcacttca gaatgggatc 240
 ttctgcaact gatcgtctcc atgcgccttg ctctgcgggt gtgtnccttat ttattgcatg 300
 cgtcgcttcc acagggggccc ctcaagagct gtgactcggg agagctacct tactttgacc 360
 aacagcctgc ccagtgtgga tgtctcttac aga 393

342-42PCT.txt

<210> 51
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 51
 cctccttagc cttagaagcc agtggtgccc tgaccagagg ggaccctgtg ttcacaggca 60
 tcctcaagga ttatcttcga gagttgccc cccactcat caccagccc ctgtataagg 120
 tgggtactgga ggccatggcc cgggaccccc caaacagagt tccccccacc actgagggca 180
 cccgagggct cctcagctgc ctgccagatg tggaaagggc cacgctgacg cttctcctgg 240
 accacctgcg cctcgtctcc tccttccatg cctacaaccg catgaccca cagaacttgg 300
 ccgtgtgctt cgggcctgtg ctgctgccc cagccaggc gccacaagg cctcgtgccc 360
 gcagctccgg ccaggcctt gccagtgcag tggacttcaa gcaccacatc gaggtgctgc 420
 actacctgct gcagtcttgg ccagggtgagt tcatgcccag ggctgcacc accaatctga 480
 gccaggctgc tacaatcccc gcctgccccg acaatctcca gatgtcgcgc cttacttgcg 540
 acc 543

<210> 52
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 52
 tcgcctgtac cagctggcat atgacaccta tcaggagttt aacccccaga cctccctctg 60
 cttctcagag tctattccaa caccttccaa cagggtgaaa acgcagcaga aatctaacct 120
 agagctgctc cgcctctccc tgctgctcat ccagtcattg ctggagcccg tgcagctcct 180
 caggagcgtc ttcgccaaca gcctggtgta tggcgctcg gacagcaacg tctatcgcca 240
 cctgaaggac ctagaggaag gcatccaaac gctgatgtgg aggctggaag atggcagccc 300
 ccggactggg cagatcttca atcagtccta cagcaagttt gacacaaaat cgcacaacga 360
 tgacgca 367

<210> 53
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 53
 ccccgagga caacctggag atcgttctgc acagatggga gaacaacagc tgtgttgaga 60
 agaaggtcct tggagagaag actgggaatc caaagaagtt caagatcaac tatacgggtg 120
 cgaacgaggc cacgctgctc gatactgact acgacaattt cctgtttctc tgccacagg 180
 acaccaccac ccccatccag agcatgatgt gccagtacct ggccagagtc ctgggtggagg 240
 acgatgagat catgcaggga ttcattcagg ctttcaggcc cctgcccagg cacctatggt 300

342-42PCT.txt

acttgctgga cttgaaacag atggaagagc cgtgccgttt ctagctcacc tccgcctcca 360
 ggaagaccag actccccacc ttccacacct ccagagcagt gggacttcct cctgcccttt 420
 caaagaataa ccacagctca gaagacgatg acgtgggtcat ctgtgtcgcc 470

<210> 54
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 54
 gtgtgtggat tcaacagtcg accccagctg tcgcagagcg cgaggaagct gcgcagtaaa 60
 ccccttacat atcaacctct gaggaccggt ttttctgcac ctggtgggtcc ttctagacgt 120
 ctaggaggat cgtgtttctca ggagaggggt cttcagcatc tgtgctgaag aacactgccc 180
 cagcgggtca catgcaagat tccaccttcg agcaacatag ctgacactct gcagcccagt 240
 tgtcacttgt aacaaacccc agtgggtcac atagtgaggg gaggcaaggc agcgtaaggc 300
 agtggctgaa ctatcccaga aaacaaggat cacaggcccc cagtgcacc aatgttgcag 360
 aaacacctgc agtggcaagt cagatgtcct ccaggaccag gcagataaca aggagtaggg 420
 gtctgcagag gcctcgggag ggtctgcacc atccaaagaa atcaattgtt ctgcacagt 480
 gtaaggatcc agtgttccca gcac 504

<210> 55
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (65)..(66)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (72)..(72)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (345)..(345)
 <223> n is a, c, g, t or u

<400> 55

342-42PCT.txt

```

gaacaccatt gtcttcaata acctgtnggg catatccagg aggcacatag ataggaggca      60
caganncatn tngggacatc attggaacct gagcaggacc tgtaatgcac tgaaactgtc    120
catctttctct tcttattgta aatgcttctc ctgggttaac ttgtaccaga ataacctgtt    180
gtgttccatc tgcacttaca atagggggcag acaaaagaga aatatcacta cttaagatct    240
gagttgtatc cagtagtggt ggatgttctg ccattatcaa taagacatta atatactgaa    300
taacgctcca attctccgag tcacgccgtt ctgaggcaga aggcngctcc tctggcgcct    360
cttcttaggg ttctgatcg tt                                              382

```

```

<210> 56
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (141)..(141)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (373)..(373)
<223> n is a, c, g, t or u

```

```

<400> 56
gaagtgggag cggctcagca taggatgggc acgccatcag ccgtcaccag gcgcccgggtg    60
gtgggggtcgt aggtgcccgc cangtagtag aggtcctgcc ggtcctggca cttgcggctc    120
cgggccatct gtcatactg ntcgcgcgcc acgacctggc acttggtggga gatggtctgc    180
acgtcgttct catcctcgtg gcaggactgg tacagcgcac tcttgccgtc gcaactgcctc    240
ttgccagct tggctctctc angggtggta gaaccacttg accttgacca ccatgttgct    300
gccccacgac tcccacatgc tctcgatgcg gccgatgtag gggagggttg gccgcccage    360
tgacaggaag acngcacagt ccccgacacg cagggtctcc tcgccccgca cgatggcctt    420
gtagaacagc ttccgggcct                                              440

```

```

<210> 57
<211> 265
<212> DNA
<213> Homo sapiens

```

342-42PCT.txt

<400> 57
catcgccac caaggcctgg gtgggtgaga acagtgccca caaggagacc ctgagtaaca 60
gagactcaca gcccatccag gtctctgggc aggaaattga aggaatcatc acattttaca 120
gaggaggaga ctgcagctca gagtggggga agtgtgtgca ccaggccaca ggcaagtctg 180
tccagagcac tggtaggaat gagggaaact aggaatgacc actttaaaaa gttagatgag 240
aagaatttca aggccgggcg cggtg 265

<210> 58
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (229)..(229)
<223> n is a, c, g, t or u

<400> 58
gctttatgca gtttgtcctt tcagttttca ggaatgagac ctcttgaccc ctcccctcca 60
atgcagcccc tactaagggg gagtttaagg agccatacat agttctataa ttcaaatcaa 120
gtaaacatgc ttcttgtccc aggttaactt gtgctgctc agtcgctggt taaacatttt 180
tatacgcaact gttaacctgc ctgccatta ccctattact tttaatggnt aaactactgt 240
tccttgggca gttgtctctt ttaacgtccc accctaaact tgccaaccct catatgaagg 300
cctcaggctt gttattggca aaggtcagaa gtcttaagct agtgaccttg caggc 355

<210> 59
<211> 443
<212> DNA
<213> Homo sapiens

<400> 59
ccctgacggc agaagagccc agcttcttgc agcccctgag gcgacaggct ttcttgagga 60
gtgtgagtat gccagccgag acagcccaca tctcttcacc ccaccatgag ctccggcggc 120
cggtgctgca acgccagacg tccatcacac agaccatccg caggggggacc gccgactggt 180
ttggagtgag caaggacagt gacagcacc agaaatggca gcgcaagagc atccgtcact 240
gcagccagcg ctacgggaag ctgaagcccc aggtcctccg ggagctggac ctgcccagcc 300
aggacaacgt gtcgctgacc agcaccgaga cgccaccccc actctacgtg gggccatgcc 360
agctgggcat gcagaagatc atagaccccc tggcccggtg ccgtgccttc cgtgtggcag 420
atgacactgc ggaaggcctg agt 443

<210> 60
<211> 552
<212> DNA
<213> Homo sapiens

```

<400> 60
gtctcgagggc agggctgaca catggtgccca tagccagcgg agggcgctca gtgagtgcc 60
cgggccttct agacaacagg caggaaggat gaacctcagg gcacccccag gtggtgcgga 120
aagccaggca gttgggacag aggtgcccac gagggcagag gccggtgcta aggggatggg 180
gaagaaggga caagattccc agagaggaga ggaggctggt ggtaggaaaag tggcagggct 240
gggggagacc cagccccaag ggtccggggc ggaggatgct ttgttctttt ctggtttttg 300
ttcctctttc gcgggggggtg ggggaggtca acagggactg agtggggcag aggccagaa 360
gtgccagcct ggggagccgt ttgggggcag ccccttctgc ccacccatc cttcttctc 420
tccagagatg ccaggggggc gtgtatgctc tgccccttc ctcagacagg ggctgggtgg 480
ggaggctctt taggctcagg agaagcattt taaagaaacc cccaccctgc cgcccgcat 540
ataaacacag ga 552

```

```

<210> 61
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<400> 61
ctctttatcc ctcagattac tccaaagcat aatgggctct atgcttgctc tgctcgtaac 60
tcagccactg gcgaggaaaag ctccacatcc ttgacaatca gagtcattgc tcctccagga 120
ttaggaactt tttgctttca ataatccaag tagcagccct gatgtcattt ttgtatttca 180
ggaagactgg caggagattt atggaaaaga ctatgaaaag gactcttgaa tacaagttcc 240
tgataacttc aagatcatac cactggacta agaactttca aaattttgat gaacaggctg 300
ataccttcat gaaattcaag acaaagaaga aaagaactcc atttcattgg actaaataac 360
a 361

```

```

<210> 62
<211> 238
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, t or u

```


<220>
 <221> misc_feature
 <222> (69)..(69)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (77)..(77)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (91)..(91)
 <223> n is a, c, g, t or u

<400> 62
 caaagtggga ggattacaag tggtatccna ccnatgcntg gacaggaata tttttaaata 60
 atgaaaccna agttccnttt cgctttgtaa ngttaatgca tgtattgatg gtgagtagag 120
 aacaatgaca caatctctag agagacatag gtgttcggcc tggctcaatc actagcctta 180
 tagtctcaca ggaaaatatg aacttcatca aaatagctaa ttattaccac atcatgga 238

<210> 63
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 63
 atgcagatga cgttgtggcc accgcactgg ccgtggagcc catgaagttt gtctacagag 60
 gcaggatcgc tgtgttctct gtgaccgtgc tgcacgacga ccggattgtc ctggtggctg 120
 agcagcggcc ggatgcctcg gaggaggaca gcttccagtg gatgagccgt gtgctgcagg 180
 tgggcgcccc ggcacggcct atggttcggg gaatctccca agctggcacc cccactccac 240
 tccaagtgcc aagtggttgg cttgtcccgc ccggctcctc ctggctccag ctttgtttat 300
 ctgtattttt cattgcaa at tgacaaatta cagctgtatg tatttacggg ataca 355

<210> 64
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 64
 cctccctcaa agctactaaa catgaaaaca ttgtgcctat atgataaaaa tgtcaatatt 60
 gctggtgata ctgatgctga tggaaatgac gatattagct gccattaacg tagtatctaa 120
 tgtgtgccaa acaatattaa aaattgctgt atatacatgt ttgccattta ttatttataa 180
 ccttaacaag atgtctcact cataagacta ctttccgcac tatgatacag 230

<210> 65
 <211> 552
 <212> DNA
 <213> Homo sapiens

```

<400> 65
agtggcctta gacataactg ctgcccgaagg agccacctgt gcccttttag gaacacaatg      60
ttgtacctta tccctgacaa tcagcagaac ataacagcag ccctgcaaag gggctcttcca      120
ggagattaag gtgactgaga gcctcactgt caacccctg cagagatggg gagcatccct      180
aggttcttggc gtacattggg ccctaatagt cataagtatc atagctgaga tccctagtagt      240
gagctgttgc tctctgtatt gttgttgtgg gttatggact cagggctccg ccatataggg      300
atgtgtccct gcctggagga cgccctcagc ctaggggggtg tagtgtaagg gaaatggctg      360
tgcttttagtc aggagtaggc tgaggcagcc ttctgggtgca gcatgactca gtggggttgg      420
agtgaagca cacaaccttg ctcgttatgt aaccacacca catgaggccc attaggtaac      480
aactcacatg agctcgtggt tggtcagag ccactattgt ctgtaaaagg tataccttgc      540
tgatgctgca ca                                                                552

```

```

<210> 66
<211> 508
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (48)..(48)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (55)..(55)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (125)..(125)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (127)..(129)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (132)..(137)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (139)..(139)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is a, c, g, t or u

```

<220>
 <221> misc_feature
 <222> (421)..(421)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n is a, c, g, t or u

<400> 66
 ggggtgactgg tctaagtgct caattacctg tggcaaagga atgcagtncc gtgtnatcca 60
 atgcatgcat aagatcacag gaagacatgg aaatgaatgt ttttcctcag aaaaacctgc 120
 agcanannng cnnnnnnanc ttcaacctg caatgagaaa attaatgtaa ataccataac 180
 atcacccaga ctggctgctc tgactttcaa gtgcctggga gatcagtggc cagtgtactg 240
 ccgagtgata cgtgaaaaga acctatgtca ggacatgcgg tggatatcagc gctgctgtga 300
 aacatgcagg gacttctatg cccaaaagct gcagcagaag agttgacctc tagcaggctg 360
 gctggatcac agctcttngc aattacatta tttataaaca cacacactag catgtttttc 420
 nagaccaaatt attatcagat tacatataat ttaatcaaat taattttattt tttntgcctg 480
 ccaaacatcc aatgtggtgc ttgttttg 508

<210> 67
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 67
 gcatgtgtaa aaagtccttc agccacaaaa ccaacctgcg gtctcatgag agaatccaca 60
 caggagaaaa gccttataca tgtccctttt gtaagacaag ctaccgccag tcatccacat 120
 accaccgcca tatgaggact catgagaaaa ttacctgcc aagtgttccc tccacaccag 180
 aagcttccta agctgctggt ctgataatgt gtataaatat gtatgcaagt atgtatattc 240
 ctatagtatt tatctactta ggatataaga tataatctcc tgattatgct ttcaatttat 300
 tgtcttgctt cattaaaatg taaggctaag gagagcatgg aatttgtcag ttttgttcac 360
 taaagtattc caagtgggtg ggaaagtgga acattttcaa gaaccaataa 410

<210> 68
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 68
 cacaggatgt ggtctctacc gtgattcctg agcatgcatg cacccttct cctgccataa 60
 gaggggagga agtcggaggg gtgtctttat gcctataaac ttgccttgga atccagcctc 120
 actccctttc ctctggagt tgagaagccc ccacagagac tggctatggg ggagtgactg 180
 tctatagggt ccttgatgt cctgcctatc tgcaaatga gaatgagatc gataccttca 240

tgaggctgta agatggcaga tataaaagtg ctgtgttata tcaaaagggg g

291

<210> 69
 <211> 326
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (60)..(60)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (218)..(219)
 <223> n is a, c, g, t or u

<400> 69
 actgtgtgca gcatattgca ggctttcact catttaatat ctacaangtc ctcaatangn 60
 atatnaatta cttatgattt ccctgttttt tcttctata aggaagctga ggcacaagtt 120
 aatcaaagtc tcttggccta ggggtgacaca gctaagattt gtacctagag atttctgagt 180
 gttgacttct ctctgcccc cacctatctc ccccccnna aaaaaaaca caacaacaac 240
 aacaacagaa cataccaggg attcatggct tgcccaatgt tggaggggga gaagagagga 300
 gagggatgag ataagctcct cccacc 326

<210> 70
 <211> 352
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (120)..(120)
 <223> n is a, c, g, t or u

```

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, t or u

<400> 70
ttctgttttc ttcttaaagt catttatatt atgtattact cttaaagaat gtttttagtct      60
ncatttttagt agtctgtgca taaggtagta atacatgtac acaaagaaaa attcacaagn      120
cccattcagg tgtcttttag aacattatatt anccactaaa tatttatata gttgacataa      180
tgcttattat gcccttgaat aatagaatgt gttttgtttt tacttcttat ccataagcat      240
tggccttaca ttgcctcaag aggaacagaa tttattatta aacaggattc ttaaattccat      300
aactcatatt gtgacttcat acattttgta accctagtag tgaatatacc ct              352

<210> 71
<211> 414
<212> DNA
<213> Homo sapiens

<400> 71
gcccaaactcg cgcaggtctg ggacctgatt gcggggccacg aggcgcaatt cggggcggag      60
ctgctgctca ggctcttcac ggtgtacccc agcaccaagg tctacttccc gcacctgagc      120
gcctgccagg acgcgacgca gctgctgagc cacgggcagc gcatgctggc ggctgtgggc      180
gcggcggtgc agcacgtgga caacctgcgc gccgcgtgga gcccgctggc ggacctgcac      240
gcgctcgtgc tgcgcgtgga cccagccaac tttccgctgc taatccagtg tttccacgtc      300
gtgctggcct cccacctgca ggacgagttc accgtgcaaa tgcaagcggc gtgggacaag      360
ttcctgactg gtgtggccgt ggtgctgacc gaaaaatacc gctgagccct gtgc          414

<210> 72
<211> 533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (51)..(51)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (68)..(68)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (124)..(124)
<223> n is a, c, g, t or u

<220>
<221> misc_feature

```

<222> (138)..(138)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (208)..(208)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (213)..(213)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (220)..(220)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (242)..(242)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (251)..(251)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (258)..(258)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (281)..(281)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (286)..(286)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (357)..(357)
 <223> n is a, c, g, t or u

<400> 72
 tgccagctac aggtgctcac ctgaaaagca agccagacca tattaaccct nggcattgct 60
 ggtacctnng aagactttct gattcaatgc ttccacctc ctctacccc tcaccacccc 120
 cgtnggcattg aaatcctnng gggctgcttt agaaattggt ttctttggct gctgggtggg 180
 gtgctgctgg tggggggttg cacagctnng canactgcan ccagtctggt ggggggttgc 240
 anagctggca nactgcance agtctcctgc ctgctgcaa naaggnccat ttcccaagca 300
 ctggcttttg agaagttggg gctctgaagt gggaacacaa ggctgccttt tgcaggncca 360
 ggtgtaaatt ctccccctgc cactttcagc ctagecgtgaa acagatggag tgtgcattcc 420
 cacttccctt tatggtaccc tggaatgatg gagctgcccc gggcatcgcc acgttactct 480

ctagacagtc tctttgtctt cctgcaatgg cagcgccgag gttgtatatt tct 533

<210> 73
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (226)..(226)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (234)..(235)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (253)..(253)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (272)..(272)
 <223> n is a, c, g, t or u

<400> 73
 gaagggctgc cttatttttag agcacagatt ttctgaatat ctattttgac aggttcgatc 60
 ctctcccctt cctgccttcc ttctgtcgat tttcaatgtc ttgatgggtgt cccacctgag 120
 tggccttttag agatgtgagt tgtgaggcac tggggaggca ggcacacgtc ctccagccca 180
 agactgccta atttaacagg gattttctgca ttctggaaca agcctnccat tttnncccca 240
 agcaggatta ctncagagg gcaaaacaca gncccaatag tatcacattt cctttctgct 300
 ttagcaaaaa taaccactgt ctcatctatg ggaaaaggcc gccaaacaaa tttgttactg 360
 gaaccatttg taacaacttc tagtttgcac tgccttgag caagcacact ttgtagagga 420
 gggatttgca gttacttggg caacaaggta accactgatc attacaggaa gcttcagaaa 480
 ccgtgggacc ag 492

<210> 74
 <211> 354
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (90)..(90)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (108)..(108)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (261)..(261)

<223> n is a, c, g, t or u

<400> 74

```
ctgttgctgc tgctgagcat gggcggggca tgggcatcca gggagccgct tcggccatgg      60
tgccacccca tcaatgccat cctggctgtn gagaaggagg gctgccnngt gtgcatcacc      120
gtcaacacca ccatctgtgc cggctactgc cccaccatga tgcgcgtgct gcaggcggtc      180
ctgccgcccc tgcctcaggt ggtgtgcacc taccgtgatg tgcgcttcga gtccatccgg      240
ctccctgggt gcccgctgg ngtggacccc gtgggtctct tccctgtggc tctcagctgt      300
cgctgtggac cctgccgccg cagcacctct gactgtgggg gtcccaaaga ccac          354
```

<210> 75

<211> 275

<212> DNA

<213> Homo sapiens

<400> 75

```
agttccagaa atccagtgc gaatgtggta tacaaaaaaa tatataaatt ctttcaactt      60
agaataatta agtcataaaa tacatagggt acaaatacca cattccgttc taaaatgata      120
tcttaggatc atcaaaagaa aaagaggatt tggattatgc aaaaaatgat tcctatatat      180
ataatcaatt atctaactga catttttgca aatctaccac aacttcgcct tttattgcat      240
atgctaaaca agcagatgct aagtctgtaa actgt          275
```

<210> 76

<211> 62

<212> DNA

<213> Homo sapiens

<400> 76

```
ttgcttaatc atgcgctttg ttttttatgc attcacttcc tgtctttatc tctattttct      60
tt          62
```

<210> 77

<211> 471

<212> DNA

<213> Homo sapiens

<400> 77

```
ttaacctaag tatcagccct ggcattgctta tactgggtcca agcaagcatt acgtcacagc      60
ctgttcctct tctttatcta aaagtgcttt ttcctttctc agcattccac aagttacttc      120
ctccttcctt tgttctctc tgcctttgcc tcttttaaat agttccaagg tgctggccaa      180
tcgggacaaa tacagaatgt gaggtcccat tccagccctg gaaactggac acagcagtag      240
ggcggacgca tcaagtgata aatgaccctg tcccccttgt tcgctgtact ctctggcaa      300
```


342-42PCT.txt

aactgctgga gagtgtaccc tttctgcaga aagtaaaaaa aaatggcctt gctgaggaaa 360
 ttaatgttca agtgcatttt ctttatggca ctggggaaca agcatttcaa acagacctga 420
 ggtttaccg atttctgctg gaaaagaaac ctcaggtctg ctgccttaga a 471

<210> 78
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 78
 tctgtaggag atcttccaaa ttactgctta tatacatgta tattctatta caaaaattac 60
 accactcaat gtagtctaaa ttattgagag taaattgtag ccattctttt acatgttttc 120
 tgaacttagt tgccaataat cataatcatt agcttttcaa ggtttgctct gaaacttaca 180
 aaccatgcaa aagtgaaaac ttaggcttaa catatttggc aatttaaate aactaaattg 240
 aatcaatcta aatactgctt tgcaaagtaa aaaaggaate aaaatgacac ataagacaat 300
 cactaatccc tatattttta gggctctattt caagaaattt actactactt cttaccagcc 360
 taaggactgt gta 373

<210> 79
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (334)..(334)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (471)..(471)
 <223> n is a, c, g, t or u

<400> 79
 aggccaggtg ctatgctcag agttcacacc tgcttgatgac tgtgaggatt gggctacaga 60
 ttctaaacca cactctccat agaggacatg gcaggtgagc ggctggcttc tgtgggtctg 120
 ggcttggtgg gttagtgtgg gctgcatggc cccaaggctg ggagctgtgt tgggatctgg 180
 tggcaggggg tttatctgac aacctcacta ttccatgtct cctctctgtg tggaggaatg 240
 ggatgcagcg aggaggccag gctggagttc tgtagagtgt aaaatcctgg atgtcctctc 300
 agcctgtctc cttgagagga cctgctgcct gccnttctgg agcacgtcat tctcttcttg 360
 gatgaccaa taaatcattc aagaatgaaa tgaaaactcc ttatctcctt ataggatctg 420
 agctcagtga tgagaagtgg aaggacaata attgaccaat cacacattta natgaataaa 480
 ttaggccggtt ggtgttcagc agcaa 505

342-42PCT.txt

<210> 80
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 80
 tgtttccttt ccacttgcta gaagttatth tgccaatcac atatgattat tttatcattt 60
 ttttaattacc atcagtgcac gaaattatct ttattattca cttgttttta ttataatctt 120
 ataattttcaa ataaaatgta aatctactgt cccttgcttt acctccgtgt cttcagtgcc 180
 tagaacagga ctgtcatata cagtgcactca atacacattt acttatgggt gattccctgc 240
 ctgactgtta caggaagaag gaccaggaat atcagaatct gaagtgtcct ctaaagtcac 300
 aaagactaga aggcattgaa taatgtttct taactatgca aggacttcag aattagatct 360
 cacata 366

<210> 81
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 81
 agatctcatt ttctggaggt gcatgtctcc cgtgaccccc tctttggatt gcccgcagag 60
 cccgtgaaga tgggtgttacc actcctgtga ttactttact gatcagggtga ctttgagtca 120
 atcaaaaggt agattatcca ggtgtgcctg atttgatcag gtgggtccctt aaggaggctt 180
 aaaatgaccc tttctgaagt agagtaattg gaaaagtaag aggggtctatg ggtgggggtca 240
 cctggcaagg aactgaactc agcctccatg agctctggcc accagctgac ctttagcaag 300
 aaagcaaato tttctttggt cagtctccac aacaggacga agctgggtga gcccttgctt 360
 ttggccctgt gagatgctga cccgagtatc cagcgaacac gtgccagagt cctgacccat 420
 ggaaactgag atgatgagtc tgtgttgctt taagc 455

<210> 82
 <211> 119
 <212> DNA
 <213> Homo sapiens

<400> 82
 ccgattttct gtttgaagca gttcccttct atgttgacgt ctccctgaag gcaaagggtg 60
 tgcactgtca tgttttgaag cccagtatcg ctgagaacaa tgacagacac atgcagtgg 119

<210> 83
 <211> 137
 <212> DNA
 <213> Homo sapiens

<400> 83
 tggctctcag agaaaccgta tttgatcaga gagctaaagg aagtgaggtt gtgagccaca 60

342-42PCT.txt

gggttatctt gaagaagagc attccaagga caggggaaac ttctcaaag accagtaagc 120
 cagagtgttc ttggtgc 137

<210> 84
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 84
 agcttacaca gcattcttag agaggacaca gaatttggag tttgagtctt gccaaagtat 60
 agggccttga gaaacattta gggctttcca tggatccacc ctaacgaagc ataaaattaa 120
 gcctaggatt ttaggggtcat cagccaaaaa tggaaactgcc ttctagaaca aaaaatgaca 180
 tccttttgag gaagacagtc atccagagtc tttacaatct tttaccacaca ttgcctagta 240
 cataattaaa catttctaga tatgaatagg aacaggaaaa tgtgacccat aatcaagaca 300
 acaagcaata aatggaaacc tacccttaag tagctaaact gttgc 345

<210> 85
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 85
 tatgtttatt cagggctctg gaacataaaa aggttttgcc acactcttca catctataag 60
 gtttctctcc agtatgaatt ttcttatgtt tactcaggta tgcagaccat ccaaaggctt 120
 tgccacactc ttcacatttg taaggtttct ctccagtatg aattatctta tgtttattca 180
 ggtctgtgga ccatccaaag gctttgccac actcttcaca tttgtggggc ctctctccag 240
 tatgaattct cttatgttca ttaagggttg tgaaccgact aaaggctttt ccacattctt 300
 cacatgtgta gggtttctct ccagtatgaa tactcttatg tttattaagg gttgcggatt 360
 gtctaaaggc tttgccacat tgttcacatt tgtagggctt ctctccagta tgaattctct 420
 tatgttcatt cagaactgag gacctactaa aggttttgc 459

<210> 86
 <211> 229
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (81)..(81)
 <223> n is a, c, g, t or u

<400> 86

342-42PCT.txt

```

gggagtggac ctgcattagc aagcagagaa tgtccagagc ctagagacag ccagcccatg      60
cagagggtag ggcataancc naggcagtgg agaggggtgag gagtgggtgta tagaagagag    120
catggagttt aaggggttat tatggctgag atccagacca tgagcagaga aaagttcagt      180
ttatctcacg gaaaacttta atgttaggct taatcctctg ttccttcct                  229

```

```

<210> 87
<211> 351
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (80)..(80)
<223> n is a, c, g, t or u

```

```

<400> 87
ggttgatggg aatttatgta ccctgacagg ggtttggttt acatagctgt attcatttgt      60
caaaacttat attaaatggn tgcaattaat attgatgcat ttcattgtat gtaaatttta    120
ccctaaaata attttagaca aattgtaaaa cctagttaaa gacatatatg ctgatatttt      180
cagggttacc tctcttgatg tctgcaactt actttgaaat gcttcaaaag gaaaatagga    240
taatggatgg aaataggagg agagaaatgg atcgatgtgt aaataaaaca aatctatcta      300
aatgttaaag cttaattgta gatgatgaat gtaggagtgt tgaatgttaa a              351

```

```

<210> 88
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 88
aagagtctat gaagaaccca acggaagttt gtggcacatc cctaccctca aattcacagt      60
gaggggtggaa tgacagtaac caaatctgtg aaaatattca catgagacag gaaagaagtc    120
agaatatcca gtgtacaatg agagtgaaag aggatgtcta aaaggggaca gcccattcac      180
aaccacaca caaccacgc acaaattttt ttgggggggc ctcccatggg catttataat      240
cttctaagtg ctccgaagaa catgtgtcac aaaagatgaa gagaatattt tccagaacat      300
agcccaacaa agaacttctt tgacattttt tagtgtaaag gtaactgacg gtatctacca      360
aattagcaat ttgtaaaact ggaatttcta aaagcaaata cttggagctg agattacctc      420
ccacttccca aattcgagtt atatgatctc aagtataata ccctttggta tagacctagc      480
ca                                                                    482

```

```

<210> 89
<211> 37
<212> DNA
<213> Homo sapiens

```

<400> 89
tctgagtggg cctgctctct gtagactgaa ttcagca 37

<210> 90
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (130)..(130)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, t or u

<400> 90
tgcactcaat ggcttctggt cgaagtcctt attaaatggt tctttcttaa atactgtatt 60
tgtcagcttc ttccttcagc atcccaactt cctcagactt tggggactt ttgcacagac 120
ctagccaccn caaancactg tcatagatgc agcaatccac tttcacaaaa ccccatggac 180
aatgcagagg gggagaacag ggactgatta aagaaagga cagaaatggc atcactatcc 240
aagactgaaa aacaggctga atggattatc actctgaccc aactgcacat ttctaattgc 300
ttcatgtttt caattactcc atgaattccc ttatctgatg ctgattatgc acaggactgt 360
gtaagagtta aacaacacct gacactgggtg actc 394

<210> 91
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, t or u

<400> 91
cctcatcact atgtcaccaa agtgttttgg aacttggtat tccagagact tctggaacgc 60
cgtgcaaggc ctgccccag caagccacaa ccaggaaggt gcaggcacgc cccactagc 120
tcctccccta tttattgcct cctggaaaac ccaggacct ctccccatc tccanccct 180
accctgggg gcagcccagg gagagccagg cacaatgagg gctcccaaca gctgcaagga 240
tttatctgaa cctttgagaa agaggaggag ccatctaagt ttctggaaac ctgagcccca 300

<210> 92
<211> 490
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (69)..(69)
 <223> n is a, c, g, t or u

<400> 92
 cccattgcga tctggctctg ggggacctg ggatgatatc cctacccna gggacaggac 60
 ccaacccng gggacctgga gagactctgt gccctgcagg accgatgggg gactcctccc 120
 tgtatgtacg tgtgctggc cctgccttgt tcttgcctcg gacctggcct ggtgaaggag 180
 gcacgaggaa gattgcagtc agggacgctc agcctgggag ctgacctca ggtgaggccc 240
 taaggaagtt cccagacctc cctgaacctc agtatgctca tctgtccagc agcaacctg 300
 ggccttaagt gagaacatct atgcggaaga ggcagggtgcc aatcaagccc tctgtaaagt 360
 tacctcccct tttcccttct tctcctctca cagagctgaa gaatattttg caaagttcat 420
 tgtaaacatt aaaataatct tgggtgttta tcattcgta aacctgttg gctgacttta 480
 ggtctaccgc 490

<210> 93
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 93
 gagaaaagta gactcccca tgccctgcag taaatgagga cgcctggcgc ctgcggcgag 60
 gtcaactgag gtcagacgag cttatctctc ctgtcccggg aattaagggc atcctgggga 120
 cagctgcaga gcaggaggct ccccggtgcc tctcttctc aagcaagtca ggatcccaag 180
 aggcgcgtgc ggggaggccc ctccgaaggg ctgctggctt gtgtcttcca ccagcgcaaa 240
 gggaaagctat cggttgcttc tgcagtgagg caagctcagc cggacgcca gaagagagac 300
 gaggtgtcgc tgctggg 317

<210> 94
 <211> 208
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> n is a, c, g, t or u

<400> 94
 atagatattt tttagtccac ttggctggat aataaantct taataacagg gggaaaaaaaa 60

342-42PCT.txt

gaaagaaaaa ggaggaaaag atttaggaaa gaaaacaaca acttttagtat ggaatgtgaa 120
gaactggcag gatattcacg ttgagctgtg cagtaagtag cttactggac atgtgaggct 180
gaagatacag ttgttcatat ggaagcaa 208

<210> 95
<211> 361
<212> DNA
<213> Homo sapiens

<400> 95
tcctctgtgt atcttatctt tattattgaa ttttcctca caatccactg ttaaaagaag 60
aaagtatcac acacgtgggt tcttttggct atggaagtgt ccttgagatc actttttgca 120
cgtgactcag ctgaagtgtt caaagcacat ggaaatcact tgccagtgc aggtggacgt 180
tgtatgtgtt ttctctctcc taaggatgcc taaactttct tttcttcaca ggtaaagtca 240
gtgataaatc ttttgtttgc tgcataact ggagatgtgt ctgcacttcg aagggtatgtt 300
tacaggatgg attagcatgc actttacaga tatttatgaa gttgcttctg ggcgagcagc 360
c 361

<210> 96
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (49)..(49)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (170)..(170)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, t or u

<400> 96
gaaacgccat ggaatgtatt gtatttctct antctatccc ttaaaatgnc cattgataat 60
tattggcaat ggttattgat agtctcaacg taatttcagt agaatttggt ttgagatttt 120
ttttatgcac ataaaagatt tcttttaggga ttattgtaca gagttctagn aaaatatata 180
atTTTTTTTT ctgggcttat aactttcttt tctaaaaatt tatttggcag cctgattaga 240
aatgtggtaa aatctgaaca ataaaatagn aaatagacta gttgcataga atgtttcaaa 300

aacaggcatt agattggcgg ctactcgga ggctgaggcg ggagaatcgc ttgagcctga 360
gaggtggagg ttgcggg 377

<210> 97
<211> 525
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (72)..(72)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g, t or u

<400> 97
cacctttctg ttctgtgacg ggctgtccct gcttgtcctg ctttaggagg taggtaccca 60
gtggctcccc gncctctcag cggctcattc ctctcgtctc cccacggtg gtctgtgtga 120
gctccgctgt gtggctgcca ttcattccgat ccatctgtgg acttgctggg gctgcgccgt 180
gcacggtgtg gtgaatgcta canccanccc caggggcggg gctgagagtg gctgggacct 240
ggagcacatg gggatgctgt gtgggaacca acttgcccc caccctgtgt ctctaggggt 300
ccgcagcagt agagaagcag acagccagcc ctgtccctgc ggcgtcacc tccaccccat 360
actaaccag cagcgcatgg agagatttcg ggagtgtct aaaggccttt ggagcaattt 420
agggcaatta cgggcagttt tagaaatgct gaggggttgt tttgcctgcg gggcggggat 480
ggttgcctta tgcccacagt gaagcgggag agatgcggta gctgg 525

<210> 98
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, t or u

<400> 98
gaagttcaac tcaggaagg gcaatataa caaatgtgct atattataat gaggaatggt 60
actaccgttc cagattttct gtaattgctt ctgcaaagta ataggcttct tgtccctttt 120
ttttctggca tgttatggaa tgatcattgt aaatcaggac catttatcaa gcagtacacc 180

342-42PCT.txt

```

aactcataag atcaaatttc attgaatggt ttgagggtgt agctctataa atagtagttt 240
ttaacatgcc tgtagtattg ctaactgcaa aaacatactc tttgtacaag aagtgtttct 300
aagaatttca ttgacattaa tgacactgta tacaataaat gtgtagtttc ttaatcgcac 360
tacctatgca acactgtgta ttaggtttat catcctcatg ttttttatg tgacctgtat 420
gtatattcta atct 434

```

```

<210> 99
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (47)..(47)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (202)..(202)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, t or u

```

```

<400> 99
gggagacaga tcacaatcag atccataagg aaaagtgtgt ctgtgtntat cttcctctct 60
agggaaaaat acagcagggg gaggggattg agtgggagtg caatcagggg agacttcctg 120
aaggcagtga ctggtgactg gaatgaagca tgagaatgag ccatgcaggt tgcccagaga 180
gagcatccag gcagagggag cngaaagttc catcctcacc cagctctgcc ggcccaggta 240
ctttctcttc tgccttctac tcccagtcct actccagtgc aacacacttc agttttcttg 300
gaactcctga tggaaagtgg ctgtatttgt tcatccctat agccttgggg cacagccagc 360
agcccctgga ggaagccccg caggtnggta aagagacaca gggctcccag cc 412

```

```

<210> 100
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 100
actgttttca gacctaacct tggcaaggtc agtcctactt tgatgttctt gtttcatcac 60
acttcttggc attttagat ttggaagaat tgggcctttg gtacctctga tctcttcggt 120
tagcaactta ctgtgcacc atatgcttag cttttgctgt ttttagctttt tttttttttt 180
tttttaacct gccacctagt ggccgaaatg ttgctatact attgataagg tactcctaata 240
tttggcaaaa tagtaagagg caaagcacca aagattatgt tctctccctt ctccaaatct 300

```

342-42PCT.txt

ctcttggtga gaatgatctt taaaacatac cactcagatt attagcaatc ttggtatgga 360
acgttttttaa aaataataat aatgtacttt atgtggtgat ttatgttatt atttaggccc 420
aaagttttga ttttaattgtt tccttttagc ttatttttga gatatgcagt ctgttaggaa 480
gctgtctctg tct 493

<210> 101
<211> 415
<212> DNA
<213> Homo sapiens

<400> 101
gccctcttgt gtagttttca ttgtgtctag tgcaatgccg taaaccttaa caccatgaga 60
cccatatgaa gtgccaacag tgatgatgga agcgctttca aagaaagaag tcatagacat 120
tataagaata aagcgacttg cttgatatgt acagtagata ggtacagctg tagctgctgg 180
ccatttcaga cagatgcttc atcttgtaaa cagcaacata aatgtatggt accaataaat 240
acagtacagt actgtaaagt tgttttctct tccttatgat tttcttggtg catgttcttt 300
tctctagttt actttattgt taagaatata ctatataata cacatacaaa atatgtgtta 360
ttgcctgttt atgttggtggg tagggcttct ggtcaacagt gggctacatt atcga 415

<210> 102
<211> 530
<212> DNA
<213> Homo sapiens

<400> 102
ggactagcag tcttcttctt cagacgccat gggacccccca ggcgactgct ctactgccag 60
cgttccctgc tggacaaggt ctgacgccc aacgcggccc gccactcct accacaagga 120
ctttgcctct gaagaccagt gtcagcaagg tgggtggtggg tgggctgctc ccatccgtcc 180
ggagccccct cccgcagcc tccttgcttc tctcagtcct ctggctggcc tccttcaccc 240
tcaccgctg tagcttgtgt ctgtccagcc ccatctgaat gtgttggggg ctctgcactt 300
gaaggcagga cctcagacc tcgctggtaa aggtcaaagt gggcatctg ctctttttcc 360
atcccctgac ataccttaac ctctgaactc tgacctcagg aggtcttggg cactccagcc 420
ctgaaagccc caagtgtacc cagttggcag cctcccgta ctctgactaa aaagaatctt 480
cagagtgcac atttggaggt ggaaagattg ttcagttacc cttaaagactt 530

<210> 103
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (47)..(48)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (50)..(53)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (56)..(59)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (85)..(85)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (117)..(117)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (121)..(122)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (125)..(125)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (179)..(179)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (266)..(266)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (277)..(277)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (285)..(285)
<223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (359)..(359)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (467)..(467)
 <223> n is a, c, g, t or u

<400> 103
 taatttttagc tccaatccat ctttctcttc tccaaaaccc tacctcnntn nmntcnnnnc 60
 caccoccttaa gtacttagtc atgcntagcc ttatattctt gtttgaattc tnatgtntctg 120
 nncnccccaa acagattata catttcttgg gtcccatact ttgcatttac catagcagnt 180
 ttcatagccc atacaaacat taggccttca aaatatattgt caagtatttc ttcaataaaa 240
 atgaaaacat cccaaatctt gatccnccta anatgtnaaa tgggnactta gttaagcaaa 300
 ctaacatcat gatatactgg aaacaggtat ctctttcctt tacccttggtg cctgctgang 360
 atcttattct cagccttgct gttttaaact caggggtgtg tgtacaacat atttaagcaa 420
 attctggaat accaaagcca agcagtcttc caggggcttc atcctgncac acagcagctt 480
 acctgggtggg tggtgggtag cacacagta 509

<210> 104
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 104
 catgatcagt gtatttttagg gggactaata tggcaactaa agctactttg gaagagaaaag 60
 agtggagata catagattgc tattatagtt caggccaata gagaggaatt gggtttaaga 120
 gatacattat ggaggcagaa gtgttcattc aacaagcgtt tgtaaataat ctactatgta 180
 atcatgatta tacaactaga gagaatatga aaaaaatgaa ttacgtatgt tagcttatag 240
 atggatgctc tcagtaccca tccctattaa tcgtcatttc cctttgttta gtgaaccttc 300
 tgatatattg gatatcaaat atcctttcca agtattgt 338

<210> 105
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (34)..(35)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (238)..(238)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (241)..(241)
 <223> n is a, c, g, t or u

<400> 105
 gttccaggtc ccggatagcg agggcngccg cgcnngetcc nagggccatg aagccccag 60
 gaggagaatc gagcaatctt tttggaagtc cagaagaagc tactccttcc agcaggccta 120
 ataggatggc atctaattt tttggaccaa cagaagaacc tcagaacata cccaagagga 180
 caaatcccc aggatcatgt tttcttatgt gaaggagaag aacaaaaatc ggatcttnaa 240
 ngcttgcaag gagcatcccc gctgggagca gagccaggg 279

<210> 106
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 106
 ccaggctact gctaagactc gtacttccca gtttggtgtg ggcagctttc agactccatc 60
 ctcttcagc tccatgtccc tccctggtgc cccaactgca tcgctggtg ctgctgccta 120
 ccctagtctc accaatcgtg gatctaactt tgctcctgag actggacaga ctgcaggaca 180
 attccagaca cggacagcag aggggtgtggg tgtctggcca cagtggcagg gccagcagcc 240
 tcatcatcgt tcaagttcta gtgagcaaca tggtcaacaa ccgccagcac agcaacctgg 300
 ccagcctgag gtcttccagg agatgctgtc catgctggga gatcagagca acagctacaa 360
 caatgaagaa ttccctgata taactatggt tcccc 395

<210> 107
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 107
 acatagagag gtgactcatt ctttttaaag gttacattaa gtttgtagta tgtcagaatg 60
 gcaatactat aattgtttta accagtgcag tttaagttgt ttccagattt tttgatctaa 120
 caaataatgt gtcagttagta tagaattttt atgttcatgt actagtatag ttataggatg 180
 actcatattt gaagcaaagt acaaaacgca tgctttctgt agctactcat aaattctggg 240
 atgagcaaaa tgtcaagatg cttgcttatc accgaccaag tgatgattaa gctcttgcta 300

342-42PCT.txt

aactgtatca aaggagaaaa agggaaatac aggccttatcc taacaatttc acagtgaaca 360
 gtaatctctg gcattcagtt aaagctagac ttgttctaata tactttgatt tt 412

<210> 108
 <211> 531
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (248)..(248)
 <223> n is a, c, g, t or u

<400> 108
 gtaagtggta ccagccacaa ctgaatatcc atctgggata aaataaaatt gcactcgtct 60
 tagagatcca aatcaacttc agatggatta aaactttgaa tgtaaaaaac ataaatgact 120
 nacagtctctg caaaatatct tggagacaaac ctgtgccatc tggagagtgg gaagagcaca 180
 tgcaaaggcc aaggggtgga gcagcccagc atgttctgga aaaggtaggg ctccccaagg 240
 ctgggatnat ggtggagacc tgggtgtgtg ggagcacagg ggtggggggc cgtgggccag 300
 gaatgcacag agaggggctg gtgctctgcc gcaggcccaa gcccccaaag cccggtcatt 360
 cccagcacca tcttcacggg tttctgccc ggtctttctg ctgcatctct tcttccccg 420
 attccttaat cattttttttt aaaatcagtt catgtctttg taaaccaaata tattttctaaa 480
 aggcaaattt atattactgc cgaaatcaag ggtcagtgag ctagtttgtgt a 531

<210> 109
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g, t or u

<400> 109
 gacttgggat tccggagcag tcgcccctat cgctgctcct gcagttgcgg acnccaccga 60
 ccccgccgcc ggaggactgg gcactgaaag gcctctangc ctaggcgcgg cccgcggagc 120
 cagacgtgtt gctgccgtga gtaaaacgag cgccctctcc gcactcgttt acaaattaaa 180

342-42PCT.txt

```

atggaggaaa tttcgttggc caacctggat actaacaagc tagaggccat cgctcaggag      240
atttacgtag acctgataga ggattcttgt ttgggattct gctttgaggt gcaccgggca      300
gtcaagtgtg gctactttcta cctggagttc gcagagactg gtagcgtgaa ggattttggc      360
attcagccag tggaagacaa aggagcgtgc cgcctcccg c tttgctccct tcccggagaa      420
cctgggaatg ggctgatca gcagctccag cgctcacctc cggaattcca gtagctgcaa      480
aatgagagtc tgaaagtggc caggacaata acatagactg gtcctgtggc ttcgaggagt      540
a                                                                    541

```

```

<210> 110
<211> 359
<212> DNA
<213> Homo sapiens

```

```

<400> 110
ctccctgcaa atgcacatgt caatcaatga ttaatgcacc caggttatgt acaaggcact      60
gggcttagca ccacagggaa ctcccttcca gaggtcgtct ttctagttgt gtagacaaga      120
atacatgcat gagaagatac aagacaattc acccatgcca aatgattcat acaggctgtt      180
taagtactgc agaaaataaa agaaggaaag gctaccagac ttttcaataa ggtctacagc      240
ttccaagag catgtctttg ttaaatacagg aaatataaaa attatgtgtg tatgtgtatg      300
tatatatata taccacccta ttaactatth taaaatcgta ttctatthtg ggggttgtg      359

```

```

<210> 111
<211> 491
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (56)..(56)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, t or u

```

```

<400> 111
cagagtggac tgttccctga ggtgggagat gtggaaaagc caagaggctg cagccnaggc      60
cactggcccc tgagatctct gcaggaaatg gctgtggagt gtggcagttt ggcaaactct      120
ccaccacacg taatgaaact tggatttgct ncagtgtctg gctgcagagc agtgggcctg      180
gccagcaggc cccagctttt ggctatgagg gccttgagtc ccccaaaaca ccgggttcca      240
gcaccacact cagccctcat tggctcttga actgagcttg gaagcttctg gtgaccttcc      300
aagagcctga gagtgagggt gaattattht aaaagataaa tattatatta tatatatata      360
tatttccctg aaggaaccaa agcgaattht aaaagatgca atgtagaggg gaaaagagat      420

```

342-42PCT.txt

gatgaaaata tttaaaggcc ctatctgttt acagtgttcc gtggttaaac tcgctcactg 480
ctaagaatat t 491

<210> 112
<211> 287
<212> DNA
<213> Homo sapiens

<400> 112
gtgatcatga gaatgctgcc tttaaagatg tggccctggt cctgactggt ctgctagagg 60
aggaaacatt agaagcaagt gtaggcccac gggaaacgga agaaaaagtg agagacttac 120
tctgggcccac gtttaccacac tctgacactc ccacctcctt caaccacatg gactcagaca 180
aattgagtgg gctgtggagc cgaatttcac acctgggtact gccagtccag ccaatcttag 240
atgctagcgt tacatccaca aaaccagtgt tgccttgat aactatt 287

<210> 113
<211> 389
<212> DNA
<213> Homo sapiens

<400> 113
tagccgatcg ttacctcaag ggagtgggaa ttgggcccag ctccggcccc tcctgggtcac 60
ctttggccat gatggccggg gccatgcctt gacccgacgc cggagggcca agcgtagccc 120
taagcatcac tcacagcggg ccaggaagaa gaataagaac tgccggcgcc actcgctcta 180
tgtggacttc agcgatgtgg gctggaatga ctggattgtg gccccaccag gctaccaggc 240
cttctactgc catggggact gcccctttcc actggctgac cacctcaact caaccaacca 300
tgccattgtg cagaccctgg tcaattctgt caattccagt atccccaaag cctgttgtgt 360
gcccactgaa ctgagtgcca tctccatgc 389

<210> 114
<211> 499
<212> DNA
<213> Homo sapiens

<400> 114
gtacctcgt ggacctggag ttagacctgc aggcgacaag aacctggcac agccaactga 60
cccaggagat ctcggtgctg aaggagctca aggagcagct ggaacaagcc aagagccacg 120
gggagaagga gctgccacag tggttgcgtg aggacgagcg tttccgcctg ctgctgagga 180
tgctggagaa gcggatggac cgagcggagc acaaggggtga gcttcagaca gacaagatga 240
tgagggcagc tgccaaggat gtgcacaggc tccgaggcca gagctgtaag gaacccccag 300
aagttcagtc tttcaggag aagatggcat ttttcacccg gcctcggatg aatatcccag 360
ctctctctgc agatgacgtc taatcgccag aaaagtattt cctttgttcc actgaccagg 420

342-42PCT.txt

ctgtgaacat tgactgtggc taaagttatt tatgtgggtg tatatgaagg tactgagtc	480
caagtcctct agtgcctt	499

<210> 115
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 115 gagtttcagg accaggcagc ttgattacag catcaagggc ccctgtgttc tctgttttct	60
gcagccatag tattggcttc ttcccaagac ttatttttcc catcagtgtc acctgtgcta	120
caagctcctt cagtcacatc tatttttgat atttgtgggt acctaggagg tgcataatatt	180
tgtgggatac atgagatact ctgacacaga tgtgcagtgt gcacggatca cagggaaatg	240
gggcagccat ccatcccttc aagcattcat gatttctttg tgttgtgaac attcccgttg	300
tgtctcttta gttattctga atgtacaaga aattattgct gactatagtc accctgtcgt	360
gctatcaaatt actagacctc attcgtggta tctaactata ttttgtaccc attaacctac	420
cccatctccc accccctacc tttcccacta tccatccag cctctggtaa ccatccttcg	480
tctatctcca cgagttcaat tgaa	504

<210> 116
 <211> 476
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (423)..(423)
 <223> n is a, c, g, t or u

<400> 116 agcacagtct ggctggatga gacagggctg tgcccagatg atggagaaat cgacccagaa	60
gcctgaggag gtgtcctggg tttggctggc tggctcctgc tccagcggcc cggcttcagg	120
tgtccggggg cgtggctgcc tggagcaggt gtgctgaata ccctggatgg gaactgagcg	180
aacccggggc tccgctcaga gagacgtggc aggaccagcg aggaatccag cctgtccact	240
tccagaacag tgtttccag gcccgcgtga gtggaccgga cctctgacac ctccagggtc	300
ttgctgactc cggcctgggtg aaagggagcg ccatggctcct ggctgttggg gtcccaggga	360
gaggctctct tctggacaaa cacaccctcc cagccccag ggctgtgcaa acacatgccc	420
ctnccataag caccaacaag aacttcttgc aggtggagtg gctgtttttt ataagt	476

<210> 117
 <211> 494
 <212> DNA
 <213> Homo sapiens

342-42PCT.txt

<400> 117
atccttgtag ctgatgtctg agccactcag aactcaccaa aatgttcaac accataacaa 60
cagctgctca aactgtaaac aaggaaaaca agttgatgac ttcacactgt ggacagtttt 120
tcccaagatg tcagaataag actccccatc atgatgaggg tctcaccctt cttagctgtc 180
cttgcttggt cctgcctctt tcacttggca ggataatgca gtcattagaa tttcacatgt 240
agtataggag cttctgaggg taacaacaga gtgtcagata tgtcatctca acctcaaact 300
tttacataac atctcaggag gaaatgtggc tctctccatc ttgcatacag ggctcccaat 360
agaaatgaac acagagatat tgctgtgtg tttgcagaga agatggtttc tataaagagt 420
aggaaagctg aaattatagt agagtccctt ttaaatgcac attgtgtgga tggctctcac 480
catttcctaa gaga 494

<210> 118
<211> 553
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (191)..(191)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (235)..(235)
<223> n is a, c, g, t or u

<400> 118
gataaccca atctacgaag actagctatg gaacttccta cactgagaca actccagtgg 60
aactctgata attatcctaa aataaggagg cttcttcagt agccctcgaa atatgttcaa 120
atacatgatt acatttatgt ccttaatat gctattagtt tctgatgtta atgtaaaagt 180
tgaggaaaaa ngtggaaaag ttaaagcagt gcaggttaat tcaatgccag agtancttct 240
cagaggggtgt atattcagtg tgaacaattt tcaacagaga aatgtcaact tctggccaca 300
acggcaacca gtaaaatgac tatttttact gtcttatcta ttaatgaaga ggagattgca 360
taatatagat gaaggagcat agtatgtgca ggtggaacgc ctagcagggc ttgagtctca 420
actctgctgc ttttactcta attgaccgag acaagtcatt taaactaata gagcttcaat 480
tttctcatat ctaatgtaac ataacaattc acagcctttt actttgtagt tatcgtgaag 540
atctaatacg agt 553

<210> 119
<211> 462
<212> DNA
<213> Homo sapiens

<400> 119

342-42PCT.txt

ctcctgttca tctgtttcac agagtggctc ggctgatggg agctcgacca atggctgcaa	60
ccatgagagg gctcccctga aacttctctg tgacaatatg aagtaccaga tctctccag	120
agccttctat ggatggctgg cctactgcag acacctgtcc accgtgagaa cccacctatc	180
agccctggtc aatcacatga tcgtgtctcc agacttgccc tgcgatgctg gacagggact	240
gacagccagg atctgggagc agtaccttca cgacagcaca agttacgagg agcaggagct	300
gctgcgcctc atctactacg ggggcatcca gcctgagatc cgcaaggccg tgtggccctt	360
cctcctgggc cactaccagt tcgggatgac ggaaacagaa aggaaagagg tggacgagca	420
gattcatgcc tgctatgcac agaccatggc tgagtggctg gg	462

<210> 120
 <211> 524
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (47)..(47)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, t or u

<400> 120 tctgtctgtg aaggcctgtg attttgtngg ggaagggcct gttctangca actggnaaag	60
gcactgccac ctgccgttgg atgccaggac tcaagagctg gccccagtca ctgtgcgag	120
agctgtctga gaatgtgtga gtggactggg tcttcggca ctgcctgcat tggctcaggg	180
cagtcaaccg tcgcagagga tgaggggcac actcaggcag cctccccggc cctggaggca	240
gaaaggccca ggcagaacca ctgactggga ggaaacagaa aaagcagagg agagccaggc	300
tgcaggcgtg tggatgggac cagctcaggc agacgctgtc tcataccac tctccctct	360
cttgccaggg cctggcctgg tgtctctcag gagcctgggc atgagacaaa agcagagatt	420
gttctcttgt ggtaccacag gctgtaacca gtccaccag tgttgtttta gaaatttaaa	480
tcggttgccc atctttttaa attggcaaca tcgtttacca catt	524

<210> 121
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 121

342-42PCT.txt

ccccaagttg gcgggcctga ttgggcggca cgggccccag aacaagcagc ccttcatggt 60
 ggctttcttc aaggccacgg aggtccactt ccgcagcatc cgggccacgg ggagcaaaca 120
 gcgcagccag aaccgctcca agacgccccaa gaaccaggaa gccctgcgga tggccaacgt 180
 ggcagagaac agcagcagcg accagaggca ggcctgtaag aagcacgagc tgtatgtcag 240
 cttccgagac ctgggctggc aggactggat catcgcgctt gaaggctacg ccgcctacta 300
 ctgtgagggg gagtgtgcct tccctc 326

<210> 122
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 122
 atgcgaggagtg agaaaagcct gttgcagaag actacataca acaggatttg acacttgtaa 60
 ggctccaaaa caaagaaaat taaatgatat tgtttagggt ttcatata ggtgataaaa 120
 gtgtgtttct ttgtttttta tgagaaaatt agtcacagaa ttttaagatct tagttacttc 180
 tataggggaag gcaggggaat gggacaagga ggaagccac agcattgggc atgctctcat 240
 gttgaagttg ggttcaaagg tgttcattat taaaatgctt cataatgatg accatacatt 300
 tggatattct aggacaatct tggtttacat ctattgtctc aacataatta ttcagtgcaa 360
 gcctttcctt tc 372

<210> 123
 <211> 197
 <212> DNA
 <213> Homo sapiens

<400> 123
 ctaccttgcc tgctgagaca tagggctcca cgggtctctc tcctggggcc gggctgactg 60
 tggcctgcga ggggcagtc tegtgttggg ttttctgcc agaggcagaa accacaaaat 120
 tacctggaac atacacgccc caagtgcag attcaattca attccacaaa tattgacctc 180
 gcgtetaatc cactcgt 197

<210> 124
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 124
 ctctgagcct tgcttggttg tcagaggcca tgagagggtgc cagttatagg tggatgtgcc 60
 aagatgctgg tgaacttggc cttcagctat acccaggctc agaaagggca agagccatgc 120
 tgcagcgtag gtgactttgg aggtgcactt ggggcccagg gctttgagtg ttgcgggtgt 180
 gcctgtccct ccagatagtg ctctgtttct ctctgttgct cccctgcctg gtcctctggg 240
 gccactgtgc tttctgctgt gtgcatttat aaatgatgtg tattttatat agacctgctt 300

342-42PCT.txt

gcattggctg atgctcctct aattccctga gtttgattca accacccttg ggttgttttg 360
ctatggcctt agcctttga 379

<210> 125
<211> 495
<212> DNA
<213> Homo sapiens

<400> 125
gaaccagaat ccttggaagc tctaggtcct acctcagaaa atctcatcgt catggttctg 60
cttcaagaac agaatttggg aattaggtat aagttcaatg ttcccatcac tcgaactggc 120
agtggagata atgaagttgg ctttacctgg aatcatcagc cttgggtcaga atgctcagct 180
acttgtgctg gaggtaagat gccactagg cagcccaccc agagggcaag atggagaaca 240
aaacacattc tgagctatgc tttgtgtttg ttaaaaaagc taattggaaa catttcttgc 300
aggtttgctt caagctgtaa tttagcaaaa gaaactttgc ttttaattata ttatattcca 360
tttgttttca acctcatgta atttgtgcag atttggttggg aaaatacatc ttggcacaat 420
gagtgtctct gctgggtgctt ctcccaagac tatcttgaag gtgggctggt tgcctttcgt 480
gaacacattc ttggt 495

<210> 126
<211> 491
<212> DNA
<213> Homo sapiens

<400> 126
atacctcatg cagccttcag gttcagttct gacaccaggg atggaccatc ccattttctct 60
ccagcctgcc tccatgatgg gacccttac ccagcaactg ggccatctct ccctcagcag 120
cacaggcacg tatatgccga cggtgcagc tatgcaagga gcttacatct ccagtacac 180
ccctgtgctt tcttccagtg tttcagtcga ggagagcagc ggccaacaga accaagtggc 240
agtggacgca ccctcagagc atgggggtcta ttctttccag ttcaacaagt aacagtggga 300
ttccccctcc catctttact gaatagaaat gaattcttgg agatactcat gctcccagat 360
tccagagggg taaccaggaa tggagaccat ccgtcggccc tgctaaggac taacacttag 420
ccatcgtttt tcacaggcct gggcctggaa aaagaaatct ctacgttcct gccctttact 480
attgctgatg g 491

<210> 127
<211> 391
<212> DNA
<213> Homo sapiens

<400> 127
ggtgctgccc tgtgtacata taaatgaatc tgggtgttggg gaaaccttca tctgaaaccc 60

342-42PCT.txt

acagatgtct	ctggggcaga	tccccactgt	cctaccagtt	gccctagccc	agactctgag	120
ctgctcaccg	gagtcattgg	gaaggaaaag	tggagaaatg	gcaagtctag	agtctcagaa	180
actccccctgg	gggtttcacc	tggggccctgg	aggaattcag	ctcagcttct	tcctaggtcc	240
aagcccccca	caccttttcc	ccaaccacag	agaacaagag	tttgttctgt	tctggggggac	300
agagaaggcg	cttcccaact	tcatactggc	aggaggggtga	ggaggttcac	tgagctcccc	360
agatctccca	ctgcggggag	acagaagcct	g			391

<210> 128
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 128		
tgtatggtcg	ctggccagtg	attctccttc tgagccgtgt ttccccctctc cctccctctc 60
cacgtgggca	gggcaggccc	catcgctttc ctctgataac cacatggaca catcctgaag 120
tcagcccagg	cgccctgagc	atcttggggc acctggaccc catcacaata ctcccttcttc 180
cttcagggtcc	ctgggtgaag	gctttgctga aaccgacccc cctttttcacg tcccttctgc 240
ctctgccccg	ttggatgccc	tgactggggg caggggaaga gacagggcac agctggccac 300
agggctcagc	cactgagcag	gctgttccgg gcctttggct ttgcatcctg gacggggagt 360
gtcctgtcag	ggaccagatg	tgtcctgcct catccctagc tccaatccct tccccacgtg 420
accgggggatt	ctgggttcaa	taaaacatgc tgctgctg 458

<210> 129
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 129		
gcagtctcgt	ccaattttcta	tagcaccgtg ggcaggaacg gcgtcctgcc acaggctttc 60
gaccagtttt	tcgagacagc	ctacggcacc ccggaaaacc tcgcctcctc cgactacccc 120
ggggacaaga	gcgccgagaa	ggggcccccg gcggccacgg cgacctccgc ggcggcggcg 180
gcggctgcaa	cgggcgcgcc	ggcaacttca agttcggaca gcggcggcgg cggcggctgc 240
cgggagacgg	cggcggcagc	agaggagaaa gagcggcggc ggcgccccga gagcagcagc 300
agccccgagt	cgtcttccgg	ccacactgag gacaaggccg gcggctccag tggccaacgc 360
acccgcaaaa	agcgctgccc	ctataccaag taccagatcc gagagctgga acgggagttc 420
ttcttcagcg	tctacattaa	caaagagaag cgcctgcaac tgtcccgcac gctcaacctc 480
actgatcgtc	aagtca	

<210> 130
 <211> 538
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (475)..(475)

<223> n is a, c, g, t or u

<400> 130

```

aggtcaccca gctgtgaatg aacgtggtca gaacacagaa tctgagttgg tcacacttcc      60
cactgatcca tggggccttt aagccctctg gaagcttcca tttaaagatga ttatttgagg    120
ataattgtat tgggatgcct atgatcttat ctagggtttt cctacccatc cccaacattc    180
agctcagctg cctcttttctt gaggacaccc tcaactgatca cccagacca gccagagtgg    240
ttgctcctgc tcctgcccct gaacctatga catacccaag tcccaataact ttcgagccat    300
ctgccactgc cttttgacat ctctgccttg gctagattca aatgggtgttt cataataaaa    360
gtctgagttt aagcagcttt accgaaaacg caagggaagt ttcattccat ttatacttct    420
ccagaccccc tgccatcctc tgctgctacc cacacaggca gaataaaagg cttanatgtg    480
taagtcccat gaaggcaaag attgggtctct tgtgttcaact gctgtctgta gtacttag    538

```

<210> 131

<211> 414

<212> DNA

<213> Homo sapiens

<400> 131

```

gtggcaaaag gggattcggc agctgtgatt aagaaccttg tgatggggag ggattcctgg      60
attaccaggg tgagtttaat gtaaccacaa agatcctttc aagagggagg caggaagggtc    120
tgaggcagac gaaagagctg tgccaaggga agcaggcggc agtgggatgc aggtggcctc    180
tagaagctgg aaaaggcaag tccatggggt ctttcctgga gccttcagaa ggagcacggc    240
cttgctgacc catcttagaa cggcaggata atcaatgtgt gttgtttgag gccactaagt    300
ttgtggcaat ttgttacagc agcaatagga aactactaca ctgtgtctga ttagatcagg    360
ccaatgaatg gagaaagtat tggatttcag ttgagtgcta aaacctgggc tggtt        414

```

<210> 132

<211> 408

<212> DNA

<213> Homo sapiens

<400> 132

```

ccagcttcac atgggtctctc aagtgccttat gcttttcttc tctctgccac ccacattccc      60
acatcccgcc cccccccaa ctttcctccc ttcaccttcc catggagact ttttgcttgg    120
gctaaatctg atcctcagcc cactctcaga atcgataaat gcccctaggt gattgtgaagc    180
tcacctaaaga tatacttttt ctctctaga attttagttt attagatttt tctagttgtc    240
tttgcaaaag cgtaaacagg ctctgacttc tgacattcaa ctagatgtgg aatatccaac    300

```

ccctagcatt tcatggaatg tactgaccaa gataaaatgt gttcttatta aacaatgcca 360
 tttcttgacc acttctgttt ttaggaattg tggatatctga gtcatggt 408

<210> 133
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (94)..(94)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (96)..(96)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (425)..(425)
 <223> n is a, c, g, t or u

<400> 133
 gcgacaaggt tgtgatccac gtggcaggtg ttcagaaggc tgggggcggg cagcgctggg 60
 gagagccctg ggtacttcga ggagaccccg aagngnggct gctccacac ctgcgccagt 120
 ttccaccctc tctgtgagca gggctgcggt cacctccac atctgaagag aaccaacctg 180
 aggatttcac gctggctgcg tgccagacca gtccctgaca ggttgtgca ggcccttcgc 240
 tggacagccc attgctggcc actggacgga gaggcagagg gggctgaaat tcgggcccac 300
 gcctctgtga gcatgacgg agcaacagct ctccagcac tgaagctctc cagacagctg 360
 ttcgtgagaa gccagacaga ggccctggggc ctccagccag atttctgggg agtgggggtg 420
 ccaancgtgg gccacgctgc tgggagccac ctagggaagc aggtcgctg tttctatagt 480
 gac 483

<210> 134
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 134
 gggaaaaccc ttgtacctga agcatgagcc actcagaact caccaaaata ttcgacacca 60
 taacaacaga tgctcaaact gtaaaccagg acaacaagtg gatgacttca cactgtggac 120
 agtttttccc aagatgtcag aacaagactc cccatcatga tgaggctctc cccctctta 180
 actgtccttg ctcatgcctg cctctttcac ttggcaggat aatgcagtca ttagaatttc 240
 acatgtagta gcttctgaga gtaacaacag agtgtcagat atgtcatctc aacctcaaac 300
 ttttacataa catctcaggg ggaaatgtgg ctctctccac cttgcataca gggctcccaa 360

342-42PCT.txt

tagaaatgaa cacagagata ttgcctgtgt gtttgcagag aagatggttt gtatgaagac 420
gtaggaaagc tgaaattata atagagtccc ctttaaatacc acattgtgtg gatggctctt 480
gccgtttcct aagaga 496

<210> 135
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, t or u

<400> 135
gagtccgagg atttcagggg cagctgggcg caggagctgg tgggctgttg ggagtgcccc 60
tttactgggc aggcttcctt cctcctgggtg atgggggggtt cctcagcaca aaagtgaagg 120
ggtggagggg ctggaggagc aggaatctct cttgttgata ggtatgaggc cttgaagtcc 180
ttttctttgt cccaggattc atggacgctt cggggctgat ctttgagttt tcaagcatgg 240
ggtgcagaga cgtttaggta aactcttacc gtcctctctc ttcgtcaggg cttcccagga 300
atcancaatg cccaagaagg aagggaattgt agaaatagct taaccctttc atttaccaac 360
gtggaaattg aagcccaggg aagggaaggg accggctcgtg gaagggagag ccatcagcag 420
aaagagacct tgagatcttc gcctgggatt cccaggaagt ccagcccag ctgattcac 479

<210> 136
<211> 393
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, t or u

<400> 136
tcccaagccc ttagggaccg cagaggactt ggggaccagc aagcaacccc cagggcacga 60
gaagagctct tgctgtctgc cctgcctcac cctgccccac nccaggcccc gtggccccca 120
gctgcatcaa gtggaggcgg aggaggaggc ggaggagggg ggcaccatgg gcccgggcgg 180
tgccctccat gcccggggga tgaagacact gctgccatgg acagcccgtg ccagccgcag 240
cccctaagtc aggtctctcc tcagttacca gggctctcgt cagagccctt ggagcctgag 300
cctggccggg ccaggatggg agtggagagt tacctgccct gtcccctgct cccctcctac 360
cactgtccag gagtgcctag tgaggcctcg gca 393

342-42PCT.txt

<210> 137
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 137
 aacctatcgc tgacttagca accaaagcct ccatcgttag gcaaggaata aaataaaacc 60
 agcacgcttt ttccactgtg attttttaaaa gtcattaaaa aatatctttt cccttatgta 120
 cagaaaaatt ggaacagaaa aatatctaac ttgctgagca tttgatggga aaaagtaaaa 180
 gataacttcc atttggtaca caacttattg tacatagagc tatgatttga ggaggcatct 240
 aattttctgaa caaattcacc aagaaatacc atcacttaaa gtcattatcg caatcatgct 300
 gcagtgaaca ctctatacaa aatggccagg tcattaaaca tcaaagatgg aaaacaagcc 360
 agcaatctct tctgttc 377

<210> 138
 <211> 483
 <212> DNA
 <213> Homo sapiens

<400> 138
 tgggcctcac ctatgatggg atgctgagtg atgtccagag catgccaag actggcattc 60
 tcatacttat cctaagcata atcttcatag agggctactg caccctgag gaggtcatct 120
 ggggaagcact gaatatgatg gggctgtatg atgggatgga gcacctcatt tatggggagc 180
 ccaggaagct gctcacccaa gattgggtgc agggaaaacta cctggagtac cggcagggtgc 240
 ctggcagtga tcttgcacgg tatgagtttc tgtgggggtcc aagggtcat gctgaaatta 300
 ggaagatgag tctcctgaaa tttttggcca aggtaaatgg gagtgatcca agatccttcc 360
 cactgtggta tgaggaggct ttgaaagatg aggaagagag agcccaggac agaattgcca 420
 ccacagatga tactactgcc atggccagtg caagttctag cgctacaggt agcttctcct 480
 acc 483

<210> 139
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 139
 ttttgcttgt cttattggcc cagcaaccag cttgacactg gggactatca ggctccaaat 60
 aataaccaat gtctcactcc aaacagacag gatactacgg agccagggtc agcaaacatt 120
 ttctgtaaag ggccagatag taaatatttt gggctttgtg ggccctatgg tctctgtcac 180
 aacgattcaa ctctgctgtt 200

<210> 140
 <211> 243
 <212> DNA

<213> Homo sapiens

<400> 140

```
gagcgccctcc agtctagaag gcataagcca ataggataat atattcaggg tgcaggggtgg      60
gtaggttgct ctgggggatgg gtttatttaa gggagattgc aaggaagcta tttaacatgg      120
tgctgagcta gccaggactg atggagcccc tgggggtgtg ggatggagga gggctctgcag      180
ccagttcatt cccagggccc catcttgatg ggccaagggc taaacatgca tgtgtcagtg      240
gct                                                                           243
```

<210> 141

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (185)..(185)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (187)..(187)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (195)..(195)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (199)..(199)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (204)..(204)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (206)..(206)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (211)..(211)

<223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (219)..(219)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (223)..(223)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (237)..(237)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (246)..(246)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (265)..(265)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (269)..(269)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (275)..(275)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (278)..(279)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (407)..(407)
 <223> n is a, c, g, t or u

<400> 141
 tgagtgggct ttgagagagg gggaagagtg agtctgagca cgagttgcag ccagggccag 60
 tgnngagggg gtttggggcca gtgcaccttc cggggcccca tcccttagtt tccactgcct 120
 cctgtgacgt gaggcccatt cttcactcct tgaagcgagc agtcagcatt cttagtagtg 180
 ggttnengnt ctgtnggang actntngaga ntattcttng ttnctgttg gagttgntca 240
 aatgtncctt ttaacggatg gttgnatgng cgtcngcnc caggtttatg aatgacagta 300
 gtcacacata gtgctgttta tatagtttag gagtaagagt cttgtttttt attcagattg 360
 ggaaatccat tccattttgt gaattgtgac ataataatag cagtggnaaa agtatttgct 420
 taaaattgtg agcgaattag caataacata catgagataa ctcaagaaat caaaagatag 480
 ttgattcttg ccttgtacct caatctattc tgtaaaatta aacaaatatg caaaccagga 540

tttccttgac ttct

554

<210> 142
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 142
 ggacatggtt atctacagca ctgagatata ctactcttct aagggcacgc catctaagtt 60
 tgtgatccca gtgtcatgtg ctgcccccca aaagtcccca tggctcacca agccctgctc 120
 catgagagta gccagcaaga gcagggccac agcccagaag gatgagaaat gctacgaggt 180
 gttcagcttg tcacagtcca gtcaaaggcc caactgcatg tgtccacctt gtgtcttcag 240
 tgaagaagag catacccagg tcccttgtca ccaagcaggg gctcaggagg ctcaacctct 300
 gcagccatct cactttcttg atatttctga ggattggtct cttcacacag atgatatgat 360
 tgggtccatg tgatcctcag gtttggggtc tcctgaagat gctatttcta gaattagtat 420
 atagtgtaca aatgtctgac aaataagtgc tcttgtgacc ctcatgtgag cacttttga 479

<210> 143
 <211> 514
 <212> DNA
 <213> Homo sapiens

<400> 143
 cagttgctgc cctacatgga gaacaggagg ggtgctgtca tcctgggtctc ttccattgca 60
 gcttataatc cagtagtggc gctgggtgtc tacaatgtca gcaagacagc gctgctgggt 120
 ctactagaa cactggcatt ggagctggcc cccaaggaca tccgggtaaa ctgcgtgggt 180
 ccaggaatta taaaaactga cttcagcaaa gtgtttcatg ggaatgagtc tctctggaag 240
 aacttcaagg aacatcatca gctgcagagg attggggagt cagaggactg tgcaggaatc 300
 gtgtccttcc tgtgtctctc agatgccagc tacgtcaacg gggagaacat tgcggtggca 360
 ggctactcca ctcggtcttg agaggagtgg gggcggctgc gtagctgtgg tcccagccca 420
 ggagcctgag ggggtgtcta ggtgatcatt tggatctgga gcagagtctg ccattctgcc 480
 agactagcaa tttgggggct tactcatgct aggc 514

<210> 144
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (74)..(75)
 <223> n is a, c, g, t or u
 <220>

<221> misc_feature
 <222> (79)..(79)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n is a, c, g, t or u

<400> 144
 gtgtggtgtt tgtgtcttaa ctatgcactg ggcccttgct tgcgtcggct tgcatacaga 60
 gggcccttg ggtnnccnt cggcctggc ctcagccagt gggatggaca gggccaggca 120
 ggcctntgaa cttccacctc ctggggcctc ccagacctcc tgtgccccca cctgtgtggg 180
 caggtggggc agtcttcggg tgatgggacc aaacccttc agttcagtag agaaaggcta 240
 ggtcctctac aaagagctgc aagac 265

<210> 145
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (73)..(73)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (114)..(115)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature

<222> (130)..(130)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (144)..(144)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (165)..(165)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (189)..(190)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (192)..(192)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (218)..(218)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (225)..(225)
 <223> n is a, c, g, t or u

<400> 145	
ggaggcgcag aagattgatc gcatgatgga ggctttcgct tctcgctact gcntgtgncaa	60
ncccgggggtc ttncagtnca cnagggtcagt gcagagccca cagcctggcc cctnnccagg	120
cacagcctcn agctctggag gggncggccc ctgtgggcac agccnagcgt gtgttcntgg	180
ggacctgcnn tnccctgagc gaggacgacc tgtgggcngg gcacntcttg caggcggggc	240
cccagcacgc ggggtccac tgtccactgg aggttctggc tgagcccagc accccggact	300
cgttgcagac acgtgctacg tgctgtcatt cgccatcatc atgctcaaca ccagcctcca	360
caaccacaac gtgcgtgaca agcccacggc agaacggttc atcgccatga accgcggca	419

<210> 146
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (411)..(411)
 <223> n is a, c, g, t or u

```

<400> 146
tatgagaaac ctctgcgacc attcccagat gatgtctgcg ttgtccctga gaaatttgaa      60
ggagacatca agcaggaagg ggtcgggtgca tttcgagagg ggccgcccta ccagcgccgg      120
ggtgccctgc agctgtggca atttctggtg gccttgctgg atgacccaac aaatgcccac      180
ttcattgcct ggacggggccg gggaatggag ttcaagctca ttgagcctga ggaggtcgcc      240
aggctctggg gcatccagaa gaaccggcca gccatgaatt acgacaagct gagccgctcg      300
ctccgatact attatgagaa aggcattcatg cagaagggtg ctggtgagcg ttacgtgtac      360
aagtttgtgt gtgagcccgga ggccctcttc tctttggcct tcccggacaa ntcagcgtcc      420
agctctcaag gctgagtttg accggcctgt cagtgaggag gacacagtcc ctttgtccca      480
cttgatgag ag                                         492

```

```

<210> 147
<211> 527
<212> DNA
<213> Homo sapiens

```

```

<400> 147
aatattgtct cataagcatc tttctatatt tgttcacatc gtacataatc atgtttttgc      60
acagatacat taatattatc atagtgtgtt taactacttg gctttttcta acagtttttt      120
tttttgagat ggtcttgctc tgttgccag gctggagtgc agtgacgtga tctcggctca      180
ctgcagcctt gacttcctgg gctcaagtga tcatcccacc tcagcctcct gagtagctgg      240
gactacaggt atgcaccacg accagctaatt tttttgtatt ttttttttgt agagagggtgta      300
ttttgccatg ttgcccaggc tagtcttgaa ctctggggct caagcgatct gcctgcttca      360
gcctcccaga gtgctaggat tacaggcatg agccactgca cccagcctct taacaaattt      420
tgaatataac tcctgtctta aaatctgcag aatattgaat ttttccagct attttttact      480
tttgcttagc ttatagatgc taaaggatac tgtcatttgc attttta                                         527

```

```

<210> 148
<211> 476
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (92)..(92)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature

```


<222> (105)..(105)

<223> n is a, c, g, t or u

<400> 148

```

ctctctcact ttctatagct ttgttgacc agatggtag gaaaggaatn ggcctcttcc      60
cttctagagg gggctggctg gaggtagacc tnggggcttg gcctnggaac ccaccacaca    120
gccccaaagt caggaagcct ggggaaacca gagctgagac ctcttcaaca gggtttcttt    180
gagatcctac acctccattg ggcccttttt cagtcttcaa tgggggcca gttggctcta    240
gaaggagaag aggtgaagca ggatcctttg ccctggggga gtctgagggc gcggtccttg    300
gactcattca ggccgtcttt gtagttgggg gaggctccact gggcgatccc agcccctccc    360
caccaccct ctaatggacc tcctcataga agccccattt cacttttggt ttatctacct    420
cttagcaaaa caatagataa attaggtagt ggcagctcca cttgcttagg ttaggg      476

```

<210> 149

<211> 177

<212> DNA

<213> Homo sapiens

<400> 149

```

gggagtttga ccagagatgc aaggggtgaa ggagcgcttc ctaccgtag ggaactctgg      60
ggacagagcg ccccgccgc ctgatggccg aggcaggggtg cgaccagga cccaggacgg    120
cgtcgggaac cataccatgg cccggatccc caagacccta aagttcgtcg tcgtcat      177

```

<210> 150

<211> 497

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (109)..(109)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (113)..(113)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (146)..(147)

<223> n is a, c, g, t or u

<400> 150

```

ctaaccactg aggtctctta atcttcctct ggagttttag tgaaaggatt tattgagcag      60
cttctggaat ataatgtgca tgtccaaaat gaactcagcg cttcaaaang acnaagtctg    120
tagcctggag gggcttgagt ggatggnagc tgatgctgtg attttgagct gtggttacat    180
gcagtcagta aacctgtgag actgctggag gaaatgtagc agacagcatg gaggctggga    240

```

342-42PCT.txt

```
cccagcagct actttgggtc atgtctttac tgtctcgctt ccaacccttt agtctcgtag      300
acttttggtc ttgtggaaat ttcttctgta ttccagttgt gtaaatatgt atggaaaact      360
gatattacta ggttttacgt tgcattctcca gtattgatct ttggaaactg atgttacatt      420
aggttccaat tcgcaatagt agcagagact gacatgcttt tattgagctg ctaagccccg      480
tggatgatgg agcgaga                                                    497
```

```
<210> 151
<211> 529
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (393)..(393)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (403)..(403)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (417)..(417)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (431)..(433)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (435)..(435)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (440)..(440)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (442)..(443)
<223> n is a, c, g, t or u
```

```
<400> 151
gccgacagct cctttaattt catggcggtt ttcttcatct tcggagccca gtttgcctg      60
accgtcatcc aggcgattgg cttctccggc tggggcgcggt gcggctggct gtcggcaatt      120
ggattcttcc agtacagccc gggcgctgcc gtggatcatgc tgcttccagc catcatgttc      180
```

342-42PCT.txt

tccgtgtcgg ctgcnatgat ggccatcgcg atcatgaagg tgcacaggat ctaccgaggg	240
gctggcgga gcttccagaa ggcacagacg gagtggaaca cgggcacttg gcggaaccca	300
ccgtcgaggg aggcccagta caacaacttc tcaggcaaca gcctgcccga gtaccccact	360
gtgcccagct acccgggcag tggccagtgg ccnttagagg gangcctgcc ctgcccncac	420
cgcccaccac nnnnncccn tnnttctctgc tgctaccctt gtgtcccgag ggctgggagt	480
acctggggcc ccatcccccc agctgtgatg gtggaagccg gtggtggcc	529

<210> 152
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (145)..(146)
 <223> n is a, c, g, t or u

<400> 152 agatgaagcc cttcaagcgc tacgtgaaga agaaagccaa gccaagaaa tgtgcccggc	60
gtttcaccga ctactgtgac ctgaacaaag acaaggatcat ttactgcct gagctgaagg	120
gctgcctggg tgttagcaaa gaagnngacg cctcgtctaa ggagcagaaa acccaagggc	180
aggtggagag tccagggagg caggatggat caccagacac ctaaccttca gcgttgccca	240
tggccctgcc acatcccgtg taacataagt ggtgcccacc atgtttgcac ttttaataac	300
tcttacttgc gtgttttgtt tttggtttca ttttaaaaca ccaatatcta ataccacagt	360
gggaaaagga aaggaagaa agactttatt ctctctctta ttgtaagttt ttggatctgc	420
tactgacaac ttttaga	437

<210> 153
 <211> 87
 <212> DNA
 <213> Homo sapiens

<400> 153 ttcttttcaca ccctgtcggg agaatgtgtg ccctgcgact gtaatggcaa ttccaacgag	60
tgtttgacg gctcaggata ctgtgtg	87

<210> 154
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 154 cccgctggtg cagtgaaga gcccggcggc cgccgccgca gccttctcgg cccgcgcccc	60
cgccgcctgc acccccatct gctcttcccc gcgggggccc cgcggcgcgg gctggggggc	120
cgggcagccg cgctcgggca gcgggggccc ggggctgccg cctgcgctcg cagctggtgc	180

342-42PCT.txt

cggtgcgcgc gctcggcctg ggccaccgct ccgacgagct ggtgcggttc cgcttctgca	240
gcggtctcctg ccgccgcgcg cgctctccac acgacctcag cctggccagc ctactgggcg	300
ccggggccct gcgaccgcc ccgggctccc ggcccgtcag ccagccctgc tgccgaccca	360
cgcgctacga agcgggtctcc ttcattggacg tcaacagcac ctggagaacc gtggacc	417

<210> 155
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 155 taagagactg agccgctagc agcgcctggg gaccagacag acgcatgtgg caaagctcac	60
catcttcact acaaacacgc ctgagagtgg cactggggaa acataactcc atctacacct	120
tggatttggg ctgattctcc attttatcac ctgaaggctt gggccagagc tcaacagcta	180
ctcaactgga ggggtgaggg ggataaggtc tgtagtatac agacaggaag atggtaggtt	240
tatgccttct gtggccagag tcttgactc atggaaatag aatgaataga ggggcattca	300
caaggcacac cagtgcagc agatgacaaa aagggtgcaga aggcaatctt aaaacagaaa	360
ggtgcaggag gtaccttaac tcaccctca gcaaatacct atgtcaa	407

<210> 156
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 156 gagaccagtt cacggggcaa gagatgaacg tggcccagtt cctcatgcac atgggcttcg	60
acatgcagac ggtggcccag ccgcagggac tggagcccag tgagctgctg gggatgctga	120
gcaacggaag ctaggcagac tgtctggagg aggagccggc actgaggggc ccagacaccc	180
gctgccccag tgccacctca cccccacca gcaggccctc ccgtctcttc gggacagggc	240
cccagccgtc cccctgtct ggggtctgcc actgccctcc tgccccggct ttccctgcc	300
ctctcccaca gccagccag agacaaggga cctgtgtca tccccatctg tggcctgggg	360
gtccttctctg acaacgaggg ggtagccaga agagaagca	399

<210> 157
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 157 gtgaccagta ccgcaagggg atcatctcgg gctccgtctg ccaggacctg tgtgagctgc	60
atatggtgga gtggaggacc tgctctcgg tggccccggg ccagcaggtg tacagcgggc	120
tctggcggga caaggatgta accatcaagt gtggcattga ggagaccctc gactccaagg	180

342-42PCT.txt

cccgggtcgga tgcgggccccc cggcggggagc tgggtactgtt tgacaagccc acccgggggca	240
cctccatcaa ggaattccgg gagatgaccc tcggcttcct caaggcgaac ctgggagacc	300
tgccttcctt gcgggcgctg gttggccagg tcctgctcat ggctgacttc aacaaggaca	360
accgggtgtc cctggcgga gccaagtccg tgtgggccct gctgcagcgt aacgagttcc	420
tg	422

<210> 158
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (364)..(364)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (373)..(373)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (375)..(376)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (378)..(380)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (383)..(384)
 <223> n is a, c, g, t or u

<400> 158	
acgcagcccg cgacaacaaa aagaccgcga tcatcccgcg ccacttgcag ctggccatcc	60
gcaacgacga ggagctcaac aagctgcttg gtaaagtac catcgctcag ggcggtgttc	120
tgcctaacat ccaggccgta ctgctcccca agaagactga gagccaccac aaagctaagg	180
gcaagtaagg gctgaacttt aaaaatgtaa acttacaaga caaaaggctc ttttcagagc	240
caccaccat ttctacggaa gaactgagca ctctgttctc caaacctatc agaaatttgt	300
ggccgagttc aagcactgag gccattactt tcctattggg taaaataaaa gtattgaatc	360
aggncatgta aanannannn aanngctacc ttataacatg aaggaaacctc ctta	414

<210> 159
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 159

342-42PCT.txt

tatcaagatt gcccctgcgg aaggcccaga cgtcagcgaa aggatgggtca tcatcaccgg	60
gccaccggaa gcccagttca aggcccaggg acggatcttt gggaaactga aagaggaaaa	120
cttctttaac cccaaagaag aagtgaagct ggaagcgc atcagagtgc cctcttccac	180
agctggccgg gtgattggca aagggtggca gaccgtgaac gaactgcaga acttaaccag	240
tgcagaagtc atcgtgcctc gtgaccaaac gccagatgaa aatgaggaag tgatcgtcag	300
aattatcggg cacttctttg ctagccagac tgcacagcgc aagatcaggg aaattgtaca	360
acaggtgaag cagcaggagc agaaataccc tcagggagtc gcctcacagc gcagcaagtg	420
aggctccac aggcaccagc aaaacaacgg atgaatgtag cccttccaac	470

<210> 160
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 160	
agagagactc agagaccgg gagggccttc ctctgaaagg ccaagccaag ccatgcttgg	60
cagggtgagg ggccagttga gttctgggag ctgggacta ctctgccagt ccagagtgt	120
acagcagaag cctctctcct agactgaaaa tgaatgtgaa actaggaaat aaaatgtgcc	180
cctcccagtc tgggaggagg atgttgacaga gccctctccc atagtttatt atgttgcatc	240
gtttattatt attattgata atattattat tactatTTTT ttgtgtcatg tgagtctct	300
ctccttttct ctttctgaca ttccaaaacc agggcccttc ctacctctgg ggctgcttga	360
gtctagaacc ctctgtatgt gtg	383

<210> 161
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 161	
aggatgcccc ttgagaaat gctgttccac agaaccctgc ctttcaggcc ttggagacgt	60
gggcagggga gaagcagcgt ccctcagagc caggcctggc agtgggtgcta gcaggggcca	120
aggccagggga gcagggtctc ctgtcggagg gacctgggca agcccctcca cgcgccagcg	180
ggtttctcag caggggagggt ccacaccaca ccgcttggga acctgggtgc ctaaacgcaa	240
caggagccaa ggcacaaatt taaccaaaca ccaagggtgc gtgaggcccc atttcatgag	300
ccgggctcca aggacgtgtc cttaggcggc tctggaaggc ccagcgccag ccccgctcct	360
ctgttaaagg gagccagccc cggcgtccgc ccaggcatgg tagcctgagc gcgccccag	420
ggtagtaggg ggcacctgag gagcagggtc tgccctggca tgagcagagc ccag	474

<210> 162
 <211> 371
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (134)..(134)

<223> n is a, c, g, t or u

<400> 162

```

gatacttgga tgcttttcct ctgactgatg aagatcctga ataccaaaga gggccgctga      60
caggctctagg agtacacttc tagcacctag cagagagagg cttcactaca tcatgcttcc      120
tgacatctct cccnttgaag agcagtcaga ctcttgcttt gctcttcaga cttaatttgg      180
gggtttaaca ggtgaggttg ctgggggaac tcttttataa catctctctg aaagaatccg      240
ggctgccagt ttcatttggt ttgggtgtca gtagcatgat ggaaagacaa aaaaacacaa      300
cttgacatct gcagaaatgg gttcaaattt tacctgcaac tcaccaattc tgtggccttg      360
gttcagcaat t                                     371

```

<210> 163

<211> 445

<212> DNA

<213> Homo sapiens

<400> 163

```

caacaagacg gacctggctg ataagaggca gataaccatc gaggaggggg agcagcgcg      60
caaagaactg agcgtcatgt tcattgagac cagtgcgaag actggctaca acgtgaagca      120
gctttttcga cgtgtggcgt cggctctacc cggaatggag aatgtccagg agaaaagcaa      180
agaagggatg attgacatca agctggacaa accccaggag ccccccggcca gcgagggcgg      240
ctgctcctgc taatgcagag ccgacctgtg gcttcccatg acactccttg cttgttgtgt      300
tgcttcctat tggctagctt cctaaggggg gaggggaaccg agttatcaag atgggaggat      360
ttttcttttc tctctgtctt taggagtagg gtgggatggg gagggaggct gggcatcagg      420
gatcacatca ctcttaacgg ctggt                                     445

```

<210> 164

<211> 313

<212> DNA

<213> Homo sapiens

<400> 164

```

ggtggcctct ggatcctccg tggaccgaac cgtcccccca ggaacacacc ttcaggtaga      60
ccccgaagcc tcaaggccgg ggctggagcg gagaccccag ggcctctcag gagacagtga      120
ggctgcccct cctaccacct acctcattct gcctactcac ccagggggcc acagccacag      180
cctgctggac tcaggactgt cctgtcaact ccagacaact gaataaacag gccgggtaca      240
gtggctcgca cctgtaatcc tagcactttg ggaggccgaa gcgggtggac cacttgacgt      300
ccgtagttcg aga                                     313

```

<210> 165
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 165
 aatgtcatgt ttatttcaggc tgggaactgt attcacagta gaagtttcag tggcaacat 60
 atctatgact ctttaggctg ctgtagtttt acagtcaatt atttaaaagt gagtagttac 120
 atttataaga gcctgagaat acttagactc agtcatttgt tagtattttt accaaaatct 180
 cttagtttca gacatgtcag aagcagctat atagcatatc ttattctatg atatacatca 240
 ggctatctca agttcctgtc tcacagttaa ttcaaagaag gattaggatt tctgtatttt 300
 ttctcatttg aatctttatg tgcatttggg ttgtgtacat gctt 344

<210> 166
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 166
 tcttacccca ctgaaaccaa cagggatcgg gccaggctcc cagattcttg aggacagggg 60
 cttcggcatt tactaatggg ggactactgt ggggtaaggg ggcgcctgct tgcctgatac 120
 aggatggggg caagggacag tgggcaggtc ctactcagg agtggggggg gtaggctggc 180
 cagccccag ggcttgtcca ccagtcttct ccccgcaagg cctcagagc agcgcctgtg 240
 ggtgtcagta ttacctgagc ctaggccaaa gctagcccaa ggctggggaa ggggaggaga 300
 ctccagggtca gaatgtgagg tctcagtctg tgatttaagg tgttgcattg ggactcttaa 360
 ctgtacgtgt agtttctagt ggagaaatca aggctctgat cattttgttt ttagtatgaa 420
 aatgtgattt cctttctggt tgtaactc 448

<210> 167
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 167
 agatgccagt aatcaatatt gaggacctga cagaaaagga caaattgaag atggaagttg 60
 accagctcaa gaaagaagtg aactggaaa gaatgctagt ttccaaatgt tgtgaagaag 120
 taagagatta cggtgaagaa cgatctggcg aggatccact ggtaaagggc atcccagagg 180
 aaaaaaatcc cttcaaggag ctcaaaggag gctgtgtgat ttcataatac aaacaaaaag 240
 aaaaaaatt aaacaaattc ttggaaatat ctcaaagtgt aataacaata tgaatttttc 300
 tcatgcatac tattactact aagcatgtac gtga 334

<210> 168

<211> 561
 <212> DNA
 <213> Homo sapiens

<400> 168
 gcccccgact gaggcggaga cgaaggtgct gcaggcgcca cgggagcggc aagatcgcat 60
 ctcccggtc atgggcgact atctgctgcg cggttaccgc atgctgggcg agacgtgtgc 120
 ggactgcggg acgatcctcc tccaagacaa acagcggaaa atctactgcg tggcttgtca 180
 ggaactcgac tcagacgtgg ataaagataa tcccgtcttg aatgcccagg ctgccctctc 240
 ccaagctcgg gagcaccagc tggcctcagc ctacagctc cccctgggct ctgcacctgc 300
 gccccagccc ccagtacctc gtccggagca ctgtgagggg gctgcagcag gactcaaggc 360
 agcccagggg ccacctgctc ctgctgtgcc tccaaatata gatgtcatgg cctgcacaca 420
 gacagccctc ttgcagaagc tgacctgggc ctctgctgaa ctgggctcca gcacctccct 480
 ggagactagc atccagctgt gtggccttat ccgcgcctgt gcggaggccc tgcgcagcct 540
 gcagcagcta cagcactaag a 561

<210> 169
 <211> 244
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (94)..(94)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (128)..(128)
 <223> n is a, c, g, t or u

<400> 169
 aatgtgtatg tctgggtaag tgtatagatt ttacaactat tttgaaggcg acctttttaa 60
 ctttaaacag accactctgg aggagacgcc tganccagag cgctttacct aaagtctcgg 120
 gcctaaantg cacccttctc ctggctgggtg tctcccttct gccaaagctat gcctcctgca 180
 gaggtaggct ccgtgggtgc tcccactccg cccaactgg agaacgggtg aaagaactgt 240
 cagc 244

<210> 170
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (262)..(262)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (268)..(268)
 <223> n is a, c, g, t or u

<400> 170
 caggatggca ttagctctgt gtctgcaggt gctgtgcagc ctgtgtggct ggctctcgct 60
 ctatatttct ttctgccacc tgaataagca ccgaagctat gaggaggagct gccgcctggg 120
 caccttcacc catggaggtcc tctctatagg cctctccgct tatattggct tcattgatgg 180
 cccatggcct tttaaccacc caggctcacc caatacacct ctccaagttc atgtcctgtg 240
 tctcaccttg ggctacttca tnttcganct tgggctgcat ctggcgcttt gcatggagga 300
 agagcatcaa gaagtaccat gcttggagaa gcaggcggag tgaggaacgg cagctgaaac 360
 acaacggaca tctcaaaata cactagccaa ggcttgctcc agattatg 408

<210> 171
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 171
 aggacatcga ggctgcggtg aaccatgatt gtaccactgt attccagcct ggacgactga 60
 gtgagaccct gtctcaaaca aaacaaaaca aaacaaaaaa aagtacaaga ggaaaaaaat 120
 tgattttctga ttgcctcact caagataagg tcaacattga aggtggaggt ggaagatgca 180
 gtttatgtag ggggtctgaag attttaccat tctggggact gtctttaaga aagagaatcc 240
 aaaattaggt agaaaagtga acgtctgacc gggcgcggtg gctcatccct gtaatcccag 300
 cacttaagga gtacgagacg ggaggatcac gaggtcaaga gatcgacagc atgctggcc 359

<210> 172
 <211> 386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g, t or u

<400> 172
 gtttctgcct ttgaacgtgg ctgtgggaag acatgatgct tagtggtgct gcagctatct 60
 catgaccttg ggcaaaacat cccaacacac aggagggcca aacaagcagt cagaagaagc 120
 ctgagtccttg tgggtgttgt tgagcagctg aacaaaccct aggatggctt ccttccagac 180
 tncttaggat tgcgaacaat gaagctctat tgtttaagca aggtatcgat ggctattttc 240
 acttgccact gaaagcacca ggacagagaa tcgtctttct aggaatacag ccacaaaagc 300
 cttcattatg gtatatgcac ataaagaata taaaagtttc ctttatgttt ctctttaaaa 360

tatagctgaa gtctgcctca ggcaaa 386

<210> 173
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 173
 gggtccaggc tttgcatctg gagcctttac cggttgactg ttgccttcca cacaaacagc 60
 ctctgaaaag cactttctcc atacataatt ctggagaaga tgagggatct tgccctccag 120
 gagccttctt tcttccccca atgaggaaat cagtcactgc actgggtgcaa aggcaagcag 180
 attggaattt ctgctottca ccgattttct cagggaaga ccccttcccc ttgccagcag 240
 aggaacctgt agttttttcc atttctttct tcagaaccaa agtatgtatc actcctcatg 300
 ctacacagga ttgacaggag agaattcacc aggatcttag ctcaaaagac acagcctcag 360
 aatggccaga tggattgcac gaaacctgac ttggattcac catcttcc 408

<210> 174
 <211> 331
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (227)..(227)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (229)..(229)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (264)..(264)
 <223> n is a, c, g, t or u

<400> 174
 gtggacgagt gactgtccct gggttgggct ggtgccattt agagggcaac cagagtgcag 60
 ggaagggagg agcttgggca agagggacat tgctgtcgct gggtgatggt gagatggcac 120
 ttaatgagaa cctggtcatt gggaaagccc caagcctgcg tcttgctgtg atgccttccc 180
 cattatgaag ggtccattgg catgggagtg gggagacctg gactcanana agctacaagg 240
 gcaaggggtg aaaggcatag cttntgcaag ttgatgctga aaaagatcca agactcatat 300
 tcagcagaca gcccataacc aagagccaag g 331

<210> 175
 <211> 260
 <212> DNA
 <213> Homo sapiens

<400> 175
 aggtcttcaa agaattggcc agtcttacag ctcaccttgg ggtgtagatg actctccact 60
 gtggtgctag gcaattttat tgaacaggtg gccactggtg gtgatggctg aaccactcat 120
 taaacaaatt gctctaaatg gcctcagtat caaggtgtgc tttctgtacc cttaatctga 180
 ctttaatcct gcagaacctc agtcttacca tgtttaacag cattgccatg tacgatatgc 240
 ctttatccta cactgtatat 260

<210> 176
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 176
 gctggctatg tacatggctc cattccctac ctgcacttct ttatgcctgt cttcaccctg 60
 ctgaccatcc acagcagcca gcactaccag gccctcatag tgccctgagct caccacagcag 120
 atgggtgatg ccaagaacat gatgggtccc tgagacccct gccatggcca ctacctaaag 180
 gtggccacag tgttcacgga ctacatgtcc atgaaggagt tggatgagca aatgcttaat 240
 gtccaaaaca agaacagcag ctactttggt gagtgaatcc ccaactatgt gaaaacagct 300
 gtctgtgaca tccactctt ggggctataa atgtctgcca ccttcaacat caacagcgtg 360
 gccatccagg agctgttcaa gcacatctct gagtgggtcat gtttcgggtgc aaagcctttc 420
 tgcactggca catgggcaag agcatggact agatggagtt caccaaggct gagagcaaca 480
 tgaacaacct ggtgtcccggt taccagtaat accaggacac ctcagcca 528

<210> 177
 <211> 540
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (48)..(49)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (52)..(52)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (64)..(64)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (122)..(122)
 <223> n is a, c, g, t or u

<400> 177
 acttatctgt gctgtaacta ttgaaatgaa nccncttcaa atatgtannc cncnttttctt 60
 tttnanattt ctaganangg tttcaatata gactttctga cttttatggg atacatatag 120
 gncaatattc tattcttctt tccttttaaa tacttactgt ttcaatttca aataaaaaat 180
 cagcattcta gtttgtacat tttagcacag aaatgtttac aaccttcagc acaattgctt 240
 ttgtaattta ctgacttggc attttgaggc gtttttaaca aattatgaga aataacacct 300
 tcagaaagca tgtgactact ttgatgcaac tatttacaat gtattcataa gaagtcatta 360
 acctgtagag ttcttagaca tgtggaacct ttaacaatta tactaaagag tacatacaaa 420
 atacagagct atgtaataat aactaatattt aaatcctgac aaattagaag ttaagcctac 480
 tatctgtaaa aatatgtcct gattcatttt tttaagtata tacctgagcc tttaaaaagt 540

<210> 178
 <211> 560
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (462)..(466)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (468)..(469)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (471)..(472)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (475)..(481)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (483)..(487)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (489)..(493)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (496)..(503)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (505)..(510)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (512)..(535)

<223> n is a, c, g, t or u

<400> 178

gccattttga gtgccagatc tagttatddd gctgcaatgc tgagtggctg ttgggctgaa 60

agctcccaag agtacgttac tcttcaaggt ataagccatg tagaactgaa tggtatgatg 120

cattttatat atggaggaac tctggacatt ccagacaaaa ctaatgttgg tcagatactc 180

aatatggctg atatgtatgg actagaagga ttaaaagaag tagcaatcta tattttaaga 240

agagattact gtaatttctt tcagaagcct gttcccagaa cattgacgtc tatactagaa 300

tgcttgatta ttgctcattc agttggagtg gaaagtcttt ttgctgactg catgaagtgg 360

attgtaaagc attttgcaag gttttggtct gagagaagct ttgcaaatat acctcctgag 420

attcagaaaa gttgtcttaa tatgttgatt cagtccttan tnnnnntnnc nngannnnnn 480

ntnnnnntnn nnnccnnnnn nnnngnnnnn cnnnnnnnnn nnnnnnnnnn nnnnncaggg 540

tgcaactcaca gcacagaaca 560

<210> 179
 <211> 385
 <212> DNA
 <213> Homo sapiens

<400> 179
 ggggttcacgt catttttctg tctcagcctc cccagtagct gggactccag gcacccacca 60
 ccactcccgg ctaatTTTTT gtatTTTTtag tacagacagg gtttctactgt gttggccagg 120
 atggtcttga tctcctgacc ttgtgatcca cccacctcgg cctcccaaag tgctgggatt 180
 gcaggcatga atgaccgcg cccagccgcag gcgcaacttt tttgagtttt cctggccagg 240
 cgcggtggct caggcctgta gtcccagcat tttgggaggc cgagggtgggc ggatcacttg 300
 aggtcaggag ttagaaacca gcctggccaa cgtggtgaaa ccccgctctcc agtaaacata 360
 caaagccatt acagggcatt gtggg 385

<210> 180
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 180
 gacaacctta gttcacttgg gtattcccat aatccttgtc tttcagggtt gacctgttac 60
 agctgcttaa acacatcact gtatgctagg tattgcctac cttcacttac ttttctaacc 120
 ttgccgatgt gctgccttca taaactgggt atatctccgc cacacttcta cgt 173

<210> 181
 <211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (167)..(167)
 <223> n is a, c, g, t or u

<400> 181
 ggtaactttg gccaaagactt ttcagtagga aatgcttcaa aatacaaagc aagagctatt 60
 ttcaagaaag accttctaaa tttatattag gacatagtga gaagaaagcc atctgaaaac 120
 caggaagaga gccctcacca gaatctgacc atgctggtgc cctgatnctt ggactttcag 180
 cctccagaac tgcaaaattc tgggtgtggtg tgaatgctgt ggctcagtcc gaacatgttt 240
 ttttctgtaa ttttatcatt attacacgat tgcaatatca gttttgtttt ttaattggaa 300
 agcaacattt tctactgttg aaagacgttt tttgacaaat 340

<210> 182
 <211> 416
 <212> DNA
 <213> Homo sapiens

342-42PCT.txt

<400> 182
acagcttgtc tgtcacagtg cctgttctga ttgcaggctt tgggtgttctc ctggtgttaa 60
tcctgacttt tttcctagtg atccaccctc tgggaaactt ctggctaatt cttagcgtca 120
cctcaattga gctgggcggt ctgggcttaa tgacattatg gaacgtcgac atggattgca 180
tttctatctt gtgccttata tacaccttga atttcgccat tgaccactgt gcaccactgc 240
ttttcacatt tgtatttagca actgagcaca cccgaacaca atgtataaaa agctccttgc 300
aagaccatgg gacagccatt ttgcaaaatg ttacttcttt tcttattggg ttagtcccc 360
ttctatttgt gccttcgaac ctgaccttca cactgttcaa atgcttgctg ctcact 416

<210> 183
<211> 503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)..(78)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (84)..(84)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (247)..(247)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (371)..(371)
<223> n is a, c, g, t or u

<400> 183
aggccgggct cagaggcgga gaagcctgcc tgggtgcccac agccgtcttg ctcagggact 60
ccaccctggc cccgagtngc cgtntgctgg gcctttcctt cctggctctg caccatgc 120
tggtgccccg gtctggcttc ccttcttgct tctgtcttgg gcgaggcagc tgtgagcatt 180
gcacagaggc aaagaccctc ctgcagcctn tgcgctgggc cgtagaaaca agagcctttg 240
taatacngaa cctcattcaa ggattaggag tgggtggttag gtcagggccca cccccagtgc 300
tgcaggaacg gcctccaccc agctctgttg gtcagagcct gggtcattgca cctggagttg 360
ggagatcaag ntgggtctca gggcagttag gtggccatat ccaccacatc gcatttcgtg 420
ggggaagagg tgacctcttt gttttaaact taagggtgtc gcttatccag ccagaaataa 480

aaatctgccca gtggtgttcc caa

503

<210> 184
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (294)..(294)
 <223> n is a, c, g, t or u

<400> 184
 gagtcccgtc tcagtgtgga ggaacnggct gcacatggga cctgaagggtg ccctctgtgt 60
 ttatgttggg ggtggggggg cagtgtgtgc tgcctctgtc ctgtgtgtga ccctaccctc 120
 gaagggtcct gtctgtcag tcccagaggga gccacaacca aagctgcgga gagaagggtg 180
 ggaagggtgc ggaatggccg tggggcacag cgtggcagac tggtcagtct ctgctgggtc 240
 tttcctaggg acctggaagg ccagtgttgc ttccccctca ctccctttca ctgnaggcag 300
 cctctctgct tccccaatgc cttatgcctg ggcacactgc cacagaatat gcaatatgtg 360
 tgggtgacca tgccctc 377

<210> 185
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 185
 gtcacacctgt gctcagttag cagctcatcc agctgggtca ggaaagcctt ttggaagcgt 60
 aggaccttgc cagccagcgc tgggatatgc aggaggacgg ggacagcatt cagcacctcg 120
 cgcagaaagc ccgactcctc cttcagtccc tcctgagcta ggtccagcag cctgaggaag 180
 cgagggtcgt cgtactcgaa gcggcgcccc cagggtgaggg aggcgatcac gttgctcacg 240
 gctttgtcca agagaccgtt ggggcgaaaag gggcgtcgga gtggttggcg aaggcggcac 300
 aaaggcaggc ggcctcctcg gtcacccact gtcacagcga cttcttgccc aggcccaagt 360
 tgcgcaagggt ggagacggag aagcgctct 390

<210> 186
 <211> 188
 <212> DNA
 <213> Homo sapiens

<400> 186
 ggctggcaac ccagaaagat tggatttcag tgccatggtg ctggctgcgg agagcttcac 60

342-42PCT.txt

ctcagggagg cactactggg aggtggacgt ggaaaaggca accaggtggc aagtgggcat 120
ataccacggc tctgcagacg cgaagggcag cacggccaga gcttccggag agaaagtctt 180
gctcacgg 188

<210> 187
<211> 549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, t or u

<400> 187
taggaatgga gcccagagcag tctcgtcttc agggccctgt gtggagtcac tgtgctgtcc 60
cagctctgga gacgcagaat tccacatgag gaatgtggaa ttcagcatgg ggatgacgct 120
gcttcacca gacttggagg agcgtggtga attgcccgtg cccatgctct gatgtgcctc 180
tctggccgct gcgttccctc tttctccctg ccttgggtca gtgcctgtaa aactgcccct 240
aaatcagcag gggcccccgtc acttctgctt tatgcacctt tttcctcaga cacattaata 300
caggggagtt ttgtttccaa gggaccacat ccagatggag gggctgtttt tggatgatctg 360
cactgccaaa tgcccagtg tccctgacag tcggagctga tgaggccaag gctgtgtgtg 420
gttcctctgg atggccagaa gaggaaccaa aacactgaat tctgggcctt ctttaagagtg 480
gtgatcagca cattgtgata gaagcatatc tgggaatgaa cttggcctca agcttttggc 540
cttttaatt 549

<210> 188
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, t or u

<400> 188
ctactctctg tctccataaa ctggtctatt ttggacatth cacataagcc tccctggatc 60
ccagtttaag catcctgggg tttgtctgcc tgccagagcc atggtgccac tggggctacn 120
tgtcctgtgg gatgacaagg caggtccaaa cctttgcctg ctctcccatc cattcctttt 180
gtgttagtcc atgtgtctcc cgactgttct ctccaacaac aacacagact gacaaaacct 240
actgacttgg agtcaggaac agactttgct attttctggc tgtgtgatcc tgatgagtcc 300
cttgaacctc ctggacttgt tcctcagcct aaaaaccaag actaataaat caagtctatc 360

342-42PCT.txt

tcacagcctt acgtggggat caaaaaacat ggagcatgtg aacacacatt gtacatcacg 420
aagctgtgtg caaataaata tcgtgtaact ccagccctt 459

<210> 189
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, t or u

<400> 189
gccccgaggcc tgctgagaag catggggggcc ttgggatagt tccagaatga ggatgtgctg 60
ttctagctgc tttgcgccct cctcccccaa aaatctgcta ccacaattcc anccccggcgg 120
cacgccccca agactccttt gtcgccccag gggcgggacc tgagctgtcg gtttcaggag 180
cccttcgtga cttcaaaagt cctgggcact gttgctcatg agtgctgcac aactgtcgcc 240
ctctaaagcc acctccatcc ctcaactggc tggcctcctg agccttcggt gaggaaacgg 300
ggttccgagt tgcccgcctg agagcttaac agtctgacta gaaaagggct aattcgcttt 360
ctgtgcaa at ctcttgagct aattatttaa tctgaaacat ggacaggtaa aggaccattg 420
gcgggcgtgg 430

<210> 190
<211> 406
<212> DNA
<213> Homo sapiens

<400> 190
acatcaagca gctttctcgc tttgctggag cttcaagtaa gattgctcca gtggaagcac 60
cagatgctaa ggtgaggatg gtgatgatcg ctggatcacc agaggctcgg ttcaaggctc 120
agggagaat tatggaaaaa tgaaagaaga aaacttcgtt agtcctaaag aagaggtgaa 180
acttgaagct catatcagag tgccatcctt tgctgctggc agttactgga aaaggaggca 240
aaacggtgaa tgaacttcag aatttgctca gtgcagaagt tgtgtccct tgtgaccaga 300
cacctgatga gaatgaccaa gtggttgctca aaataactgg tcacttctat gcttgccagg 360
ttgcccagag aaaaattcag gaaattctga ctgaggtaaa gcagca 406

<210> 191
<211> 555
<212> DNA
<213> Homo sapiens

<400> 191
aatgctgtca gcccttaggc aagactaaat tggaaagaaa ggtgtctgcc aaagaaaaca 60
ggcaggcccc tgtcctcctt caaacatata gggaatcctg gaatggagaa aacatagaat 120

342-42PCT.txt

cagtgaacaa aagccgtagt ccagtttctg tgttttcctg ggacaatgaa aagaatgaca	180
aggactcctg gagtcaactt ttcactgaag attctcaagg ccagcgggtc attgcccaca	240
acactagagc tccttttcaa gatgtaacca ataactggaa ttgggactta gggccgtttc	300
ctaacagtcc ttgggctcag tgccaggagg atgggccaac tcaaaatctg aagcctgatt	360
tgctctttac ccaggactct gaaggtaatc aagttatcag acaccaattc taaatgtttg	420
aagctttggt tctaaaagta ccttgaaatg atagagatgt aggaaaatat agttgtgggt	480
ggagagagga gtgagtttgt ttaggtggga aggtggcatg ggatgaagtt gtcattactg	540
agcatcttct ctgtg	555

<210> 192
 <211> 554
 <212> DNA
 <213> Homo sapiens

<400> 192	
gccctgctca gaggtcagag ggtctgggca gaggagggac cacattcccc tgccttgccc	60
ctgagcactt ctggagactg cgtcctgtcc tatctgctca ccatcaccct tcctgcccga	120
cggagctgct tctgctccct ggggcatatg gactgaccca cctcctgctg agaaccttcc	180
cctaggccct gtgcagaagg gctactgccc cttaggcctc agctggggga aaggcagttc	240
tggtgctgta gaggccctgg tgcagaaagt gggacgtctt ttttcctaag gtgtttaagc	300
acaggcttga taagtttgggt ttttaaaaaa taatctagga aatgaataat tctaaatcta	360
gtaatgagga aactgagcat ttcttttgcc ctccagggtg ccaagaccct acatatgaca	420
gaacccttgg cctttctcca tgctgtggg atctgtttct ttaaagcact ttgtactgtt	480
attcaggagg ttgataatct ccttgaccca tgtctttcta ccctaatacc cacttccctg	540
cagaatcaat ctga	554

<210> 193
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 193	
acgcgtccaa catctcaaac ttgatctcca tctttggctc cggttctctg gggctggtga	60
gccgacagcc ggactcctcg gagcagccgc cgccgctcaa cgggcagctg tgcgccaagc	120
aggcgctcgc cagcctcggc gcctggactc gagccattgt cgccttctag ggacccccga	180
gggcacaggg acccgggggc ccgcggggct ggggccagac aaagactcgg caaaggggcg	240
agaggagggga acgagcgggc gccggggccac tcggggctga gctgggggcg agcgggggca	300
ggcggctgat gttttataa	319

<210> 194
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 194
 gaagactttc taaataatga taatcagagc tgtactctct ctggaggcaa acatcatggt 60
 cctgttgaag ccctgaaaca aatgttattt aaccttcaag cagtacaaga acgttttaat 120
 caaaataaga ccacagatcc aaaagaagag attaaacaag tttcagaaga tgatttctct 180
 aaattacagt tgaaggaaag tatgattcct attactag 218

<210> 195
 <211> 246
 <212> DNA
 <213> Homo sapiens

<400> 195
 cccacccaa atacaagtcc cagtggaaag gaaaggtagt acctattctt ctccatgggg 60
 ttcctaacac cctccattac tctttcagtc tccaagcact ttgaatccat ttttaaacad 120
 tcaggttgcc agacctgtca cacagtgggc tctgataggg ttacggaggg ggcctggctc 180
 tcagtctcta ctctcctatg tcccatcagt tggttggagg ccaccttcca gggggtatgg 240
 gagaca 246

<210> 196
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 196
 caccttgacg gttccagtgt ctgtatttat gttgaaagtc caggtgaatg acatcatcag 60
 tcgtcagtac ctgagccaag cagttgtaga agtgtttgta aactacacga agacaaattc 120
 cacagtaact aaaagcaatg gagcagtgtc gataaaagta ccctacaaat taggacttag 180
 ttttaactatt attgcttaca aagatggcta cgtgttgacc cctctgcctt ggaaaaccag 240
 aagaatgcc aatatattcat cagttacact ttcactgttc ccg 283

<210> 197
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 197
 cgtccgagtg tgagtcagtc agcgacaagg ctcccagccc tgccaccctg ccagccacct 60
 cctcctccct gccagccca gccaccccat cccatggctc tcccagttcc catgggcctc 120
 cagccacca ccctacctcc cccactcccc ctctgacagc cagtggggcc accacagctg 180
 ccaacggggg tagcttgaac tgctgcaga caccatcctc caccagcagg gggcgcaaga 240
 tgactgtcaa cggcgctccc gtgccccct taacttgagg ccagggaccc tctcccttct 300

tccagccaag cctctccact ccttccactt tttctgggcc cttttttcca cctctttctac 360
 tttccccagc tcttcccacc ttgggggtgg g 391

<210> 198
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (116)..(116)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (165)..(165)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (168)..(168)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (175)..(175)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (225)..(225)
 <223> n is a, c, g, t or u

<400> 198
 agaggcaggc atagaggctt ctccgccagc ctctcttgga cggcaggctc actgccaggc 60
 cagcctccga gagggagaga gagagagaga ggacagcttg agccggggccc ctgggnttgg 120
 cctgctgtga ttccactaca cctggctgag gttcctctgc ctgcncnngc ccccnagtcc 180
 ccacccctgc cccagcccc ggggtgagtc cattctccca ggtanccagc tgcgcttgct 240
 tttctgtatt ttatttagac aagagatggg aatgaggtgg gaggtggaag aaggggagaag 300
 aaaggtgagt ttgagctgcc ttccctagct ttagaccctg ggtgggctct gtgcagtcac 360
 tggaggttga agccaagtgg ggtgctggga ggaggagag ggaggtcact ggaaagggga 420
 gagcctgctg gcacccaccg tggaggagga aggcaagagg ggtggagggt gtgtggcagt 480
 ggttttgga aacgctaaag agcccttgcc tccccatttc ccatctgcac cccttctctc 540
 ctccccaaat caatacacta gtt 563

<210> 199
 <211> 591
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (60)..(84)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (122)..(146)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (182)..(200)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (453)..(478)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (495)..(536)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (540)..(554)
 <223> n is a, c, g, t or u

<400> 199
 ctggagagcc agtgcccatg gcccgtgctg tctccacagg gggtcgcccc ccagcccaan 60
 nnnnnnnnnn nnnnnnnnnn nnnnggatgc ccaatacgag ccaggtgccg gggttcctgt 120
 cnnnnnnnnn nnnnnnnnnn nnnnnntgga tattggtgcc ctcaagccag gtggacggca 180
 annnnnnnnn nnnnnnnnnn gagcacgaga gctttgagaa gcctcagctg ctgactgtga 240
 acctcaccgt gtactacccc ccagaggtat ccatctctgg ctatgataac aactgggtacc 300
 ttggccagaa tgaggccacc ctgacctgct atgctcgcag caaccagag cccacaggct 360
 ataattggag cagcaccatg ggtcccctgc caccctttgc tgtggccccag ggcgcccagc 420
 tctgatccg tctgtggac aaaccaatca acnnnnnnnn nnnnnnnnnn nnnnnnnntg 480
 ccctaggagc tcgcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagcn 540
 nnnnnnnnnn nnnncatgtc tctattcag ctgtgagcag agagaacagc t 591

<210> 200
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 200
 catcagattt ctgcagatct gctttaagc tgtacatttt tgttacagtc taagatgtgt 60
 tottaaatac ccattccttc ctggtcctca cctccaggg tggctctaca ctgtaattag 120
 agctattgag gagtctttac agcaaattaa gattcagatg ccttgctaag tctagagttc 180

342-42PCT.txt

tagagttatg tttcagaaag tctaagaaac ccacctcttg agaggtcagt aaagaggact	240
taatatttca tatctacaaa atgaccacag gattggatac agaacgagag ttatcctgga	300
taactcagag ctgagtactg ctccaggggtg gtgtgcaatc ttatattgat gcttgtgaat	360
ctgccatttg atttgtagga taaataaata tgtttaatat taacaacttc catcaaaact	420
ataataataa tattatatct actgttgacc tctaacaaca atcaggtgct gtattcagag	480
tcata	485

<210> 201
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 201	
gccctgactg actgtattct ctggccacat tcaagtcacc cattggtggg ggcagagaag	60
taggaccagg ccatccttgg ctccagagct cgaagacccc aagacagccc tctgctctca	120
gcggcgccac agagagcctg ggctcagcct tctgcatcag gacatggcct cgtccactga	180
gggcacgatt taaacatttg acatcagaag ctttatttgt aaacctcaca cagataagga	240
ccaagggctg gcggtgtggc cagaggacag gggaaagctga aggccccgtg cttgagctcg	300
gcagtcttgc tccttgcagt gaagccacca tgggtgaccg tccagcctca cccggtggcc	360
tgcacagtga ggggaagggt tcagggccat ctgctcccag ggcagggggac aggccaccaa	420
ggacctttgg ca	432

<210> 202
 <211> 499
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (425)..(425)
 <223> n is a, c, g, t or u

<400> 202	
ggtggagaag ctggcgcgctg agaacagcag catgcggctg gagctggacg ccctgcgctc	60
caagtacgag gcgctgcaga ccttcgcgcg caccgtggcc cggggacctg tggcgccctc	120
caaggtggcc accaccagcg tcatcaccat cgtcaagtcc accgagctct cctccacctc	180
cgtgcccttc tcggctgcat cctagtgccg gccgggggcg ggggggtggcg ggcggcgggc	240
ggcgggcagg cgggtggggg cacacccctc gtacctgtca ctgggatgca gactctcgac	300
atccgagtcc aagcgcaggc ccctcgggcg caggcagctc acaccaggaa gagactgtat	360
tgcagggtga agagtgggct cccgtgggccc cagagctgca cgccggtcca cagacacact	420
cacgnccgcc acctgctccc cgcagatgtg tctgtgtgtg ggaattggta tcttgcaccc	480

gtgggagtcg ggacatata

499

<210> 203
 <211> 569
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g, t or u

<400> 203
 ttccagcacc attcttttcc tattaaatta cactggcaaa tttgattaaa aaaaacaact 60
 gactatatat gcttgtaaac atttccagat tatgttattc ttttaancta aatatgtgtc 120
 cttatgccaa taccocactc catctattac tgcagtgtat gataagtctt gaaatctagt 180
 agtgtaagtt cttcaacggt gcccttaatt tttaaaatca ctcttgctat ttaaaattgt 240
 ttgtattaca tggaaatttt ataatcagct tgccaatttc tacaaaagtc ctgctgagat 300
 ttttaattggt attttgcttg ttctgcagct taatgcaaga aaattatctt aacaatattg 360
 aatttttcaa tctattaaca tgttatatat tactgtttac ttaggatttt ttcacttttc 420
 ctgccttggt ttgaactgat attgtgggtt taagtaattt tttttatttc tactattggc 480
 ttagtaacta tgccccactt tttgattttg tagcacagtt gaccattgaa caacacaagt 540
 ttgaattgtg catgtccaat tgtctatgg 569

<210> 204
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 204
 ggagcagaga cagagcgacc catacctggc ccaggccccg gccccgcagg cagctgaatt 60
 cctgagccca gtgacaaccc cttccccctg cactctgtcg tccgcccag cctcaggccc 120
 tgaggctgca gatgagactt gtccccagct ggctgtccat cctcctgggtg tcagcaagct 180
 gggtttgag tgtcttccaa gcgacgggtg tcagaatgtg aaccagtgac tctcgggcgc 240
 ccctgtggta actttgcagg cgcccc 266

<210> 205
 <211> 506
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (99)..(99)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (103)..(103)
 <223> n is a, c, g, t or u

<400> 205
 gcaagagctt tatccagagc tcccacctga tccgccaccg nccgcatcca cacgggcaac 60
 aagccgcaca agtgtgcggg ctgcggcaaa ggcttccgnt atnaaaacgc acctcgcgca 120
 gcaccagaag ctgcacctgt gttaggggct ggggccgcgg gaggctgccg tctgggggagc 180
 ctgtgggggg tagatatacct gggactgacc caggggaagg aagtggggaa ggggcgggag 240
 ggacaatctg agagtgactg gggagccttt ggtgtttggg gtttcctgaa gtgggaggag 300
 tgttgagtaa gttggtcttt cccgggtgcta tacttgacct ctctccacgg aagaattgtt 360
 caggagatgc gcttgggggtg atgacttcct taaatacacg ctgtaggggg tgaagagctt 420
 ggaggaccag gcactttgag gaagggcagt tcgtgggctg ggggtgggaac aggatggcgg 480
 gcaatagact agggtaggcc gcgatg 506

<210> 206
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (56)..(57)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (60)..(62)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (64)..(64)
 <223> n is a, c, g, t or u

<400> 206
 tcatttagcc ggtgtccact aactcagtgt tgtgggcat ttgtaaaccc ttntgnngtn 60
 nncnccaggc agacgtaggg aaagaaagag aggatctgta tagacaagaa agctggccat 120
 gtgggaagtc cagagctcaa accatgtgcc ccagaggact ggtgctggca ttaagcctgt 180

342-42PCT.txt

aaatcaaagg cttctttggc aggaccctgg gctggttagaa tcaccctagg gagcagagcc	240
aggggacatt ttggcccttg actagcaagg cacaacccta taatggcaga agcccttctt	300
tcccctcccc gtttcccacc agaccactt ccttgatggg cctctagcac ccttccaagc	360
tgatggggtc gggaatgtga gctggtaaaa tgggcagtgg aaggggctgt actgtttctt	420
tacatctcac ggggactag	439

<210> 207
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 207	
aagaaatgct acctcgggtgc catgttcttg actccgcaga acaaggactt tttggagaac	60
tccagcctat accctctatt gccatgacca gtacttcagc cactctgggtg tcatctcagg	120
ctgatctccc tgaattccac ccttcagatt caatgcaa at caggcactgt tgcagagggt	180
ataaacatga gataccagcc acgaccttgc cagtaccttc cttaggcaac caccatactt	240
attgtaacct gcctctgacg ctactcaacg gacagctacc ccttaataac accctgaaag	300
atacccagga atttcacagg aacagttctt tgctgccttt atcctccaaa gagcttagct	360
ttaccagtga tat	375

<210> 208
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 208	
gttcttgagt acatagccaa tgccaatggg agggatccca cttcttacct atccctgtat	60
gaagatgctt tgagagagga gggagaggga gtctgagcat gagatgcaac cagggccagc	120
gggcagggaa atgggccaat gcatgcttca gggccacacc cagcagtttc cctgtcctgt	180
gtgaaatcag gccattctt ccctctgtgt ttgatgagag aagtcagtgt tctcagtagt	240
agaaggcaca gtgaatggaa gggaaacacat tgtatactgc ctttaggttt ctcttccatc	300
gggtgacttg gagatttctt tttgtttccc tttggtaatt ttcaaataatt gttcctgtaa	360
taaaagtttt agtttagcttc aacatctaag tgtatggatg atactgacca cacatgttgt	420
tttgcttata catttcaagt gcaagtgttt gccattttgt aaaacatttt gggaaatctt	480
ccatcttgct gtgatttgca at	502

<210> 209
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (114)..(116)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (118)..(119)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (121)..(122)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (124)..(124)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (129)..(129)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (131)..(132)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, t or u

342-42PCT.txt

<400> 209
 tcccctagct tgggggtccag acagcccagt ggaccaggc gcctgagcag gagggtaacc 60
 caggccaccc ggccccttcg gccctctcgg cccaccccc tgcagccggn gncnnncnn 120
 nncnacnana nngcngcgag aagangacag angngactga gcaaaggggg gtgggctcca 180
 ggcgaccct agcccaattc tgcccctcca tcccaagggg cagagaaatt gtctttcttt 240
 gctgactcct 250

<210> 210
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (142)..(144)
 <223> n is a, c, g, t or u

<400> 210
 tttggacatg tccatttttg aagaaacttt tgtgttaaaa taaactaata tattatgggc 60
 tagaacataa aattcaccaa gaatttcaag ataaaaatac taatgttttg cttgtttggg 120
 ttatttcaaa caataacttt gnnntctata attttttcac caccgaccct ctacctcctt 180
 gcatgctcat tctcctgtgt ggctagatgc atttcgggtg ttttgaatat tatttcagag 240
 caagtatcat tccagaaaat aagtttaaag tttgaaatgt ttattttttg taacctatga 300
 atcttcagct taagtatctt ctgacataaa agcattttca taattataaa agtgctgata 360
 ttactctcca cagtattata tctgatcctg caaagtagtt cagataccag agaatactct 420
 taaacatttt gactcacgca 440

<210> 211
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 211
 ggactcaggg agtacacact taccagtgcc cttaaagata gccgttttcc cccaatgaca 60
 agggatgagc tgccacggct tttctgctca gtgtctctgc tcactaactt tgaagatgtc 120
 tgtgattatt tggactggga ggtgggtgta catggcatta gaatagaatt catcaatgaa 180
 aaaggatcaa aacgcaccgc cacctaccta ccggagggtg caaaggagca aggatgggac 240
 catatacaga ccatagactc cttattgagg aaaggaggat acaaagctcc gattactaat 300
 gaattcagga aaaccataaa actgaccagg tatcgtagtg aaaagatgac cctgagctat 360
 gctgaatacc ttgctcatcg ccagcatcat catttccaaa atggcattgg gcatcccctt 420
 ccgccataca accattattc ctgacactga gccgcacaac cagtcactgg gcctctctgc 480
 agacctcttc ccaggagacc ctacaccttc ttggtctagc tatctctttt actgtaccat 540

tttatgatga tagtttccgt tgccatggtg aag 573

<210> 212
 <211> 514
 <212> DNA
 <213> Homo sapiens

<400> 212
 cgtccttgtc atatcctttt aactagggcat ctgagagaag cagagacagg gcagccttcg 60
 tcctggggga aaagggaccc tcaggatggc atgagaggtc ctcaatccca agtgtggaac 120
 tgtccccctc aacttggttaa aatgcagatt tctgggtctt gccaatgggg cctggggactc 180
 catgtgacaa ctggcccagg agcttctgat gtcacacaga attctgcagt cccaagctcc 240
 agccccgacc tgctctgctg ttcctaggtg actgcccctca cactgctgac cacagtggat 300
 ttctccccct gctgctcggg ctgagctggg gtcagccctg cttataaggt caactgtgca 360
 aaaccttata ctggccaaga acaaactagt gctgggggag gagggtggg tgccccggcc 420
 actggtggag tccccaggaa atcctcagag ctgttgagag gatgagacac atttgtggac 480
 acgtccacct gtctctctga ccgtctggag agaa 514

<210> 213
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 213
 ccggctatgg gctcgagccg agttccttca acatgcactg cgcgcccttt gagcagaacc 60
 tctccgggggt gtgtcccggc gactccgcca aggccggcggg cgccaaggag cagagggact 120
 cggacttggc ggccgagagt aacttccgga tctacccttg gatgcgaagc tcaggaactg 180
 accgcaaacg aggccgccag acctacaccc gctaccagac cctggagctg gagaaagaat 240
 ttactacaa tcgctacctg acgcggcggc ggcgcacgca gatcgcgcac acgctctgcc 300
 tcacggaaaag acagatcaag atttggtttc agaaccggcg catgaagtgg aaaaaggaga 360
 acaagaccgc gggcccgggg accaccggcc aagacagggc tgaagcagag gaggaagagg 420
 aagagtgagg gatggagaaa gggcagagga agagacatga gaaagggaga ggaagagaag 480
 cccagctctg ggaactgaat cagg 504

<210> 214
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 214
 gaaattattc actccgtata ctgaaacaga aataaacgag gaagaactta caaagccaag 60
 actcttgtgg gctctttatt ttaatatgag agattcctcg ggaatcagca gaagctcgta 120

342-42PCT.txt

taatggcttg ccttccaatg tttatgtctg ctctgggcct gactgtggcc tgggaaatga	180
gcatgctgtc aagcaagctg aaacactttt ccaggagatc tttccaactg aagaattctg	240
ccctccacct ccaaatccag aagacattat ctttgatggg gatgataagc agccagaggc	300
tcctggaacc aataatgtag taatggccaa actagaatcc tctgaggaaa gcaaaaacct	360
agaaagccca gagaagcacc ttcaaaatta gaaaagagca atctcgaaat gctgttttgg	420
acctccttca tggcatcaga attttctcat ttaaaggaca gtttcccata tgagtaatta	480
gaagtgggta tatatgatga atgctatgca gatgttgtct ttaactctc	529

<210> 215
 <211> 480
 <212> DNA
 <213> Homo sapiens

<400> 215	
tctttgctct agtattccac ggtgcctctg acatgagaac aggatggaga ctggcttctg	60
atgtgacatg cattttgtag gtatgatcca aaatagcttg gaaactatcc cagtcttcaa	120
ccatccccatt ttttagagggt gaaatggcct ccatattctc cctcggaaca cgcagagcat	180
tagtatctat gtagtaggtg ggaccgcctt gtttgccttt atcgccatct atttccatta	240
atgtgcttcc gtcattctctt tctaccacca taccaatagc tgtaggaaaa tccaccttgg	300
ggcagtcctc accagcataa ccagctctca cagtatagga tccaatgtca aaaacaaggg	360
ctccaacttc atctcccccg taccacgccg ccgctcatgg ctgctgccgg cgcgactcct	420
accctaaggg ctaactggcg aagtgactgc agtggccgcg actgcgagtc tcgaggagcg	480

<210> 216
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 216	
tggaagcatt tggtgcctcg atcttccact ttagaaaaat gaagtttctc cttttctttg	60
ggagaggata tatctgaata cttgccttct tggcatttat acattcaaag ctgagtgcta	120
gattagagct attatttgca tagtcttttg gtattgcca cttttggcat taccatatta	180
tttgacaatt agaaggaata gggaaggaat attacatgac tgtaaaagag ttggttatat	240
tttatgttga cttcaagggt tccatttgaa ctattatggg ca	282

<210> 217
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 217	
gcaggaccac cttgaattct gccctgacac actggattgg agagcagcag aaccagggc	60
ctggcccacc aagctggagt gggaaaggca caagattcgg gccaggcaga acagggccta	120

342-42PCT.txt

cctggagagg gactgccctg cacagctgca gcagttgctg gagctgggga gaggtgtttt	180
ggaccaacaa gtgaccactc tacggtgtcg ggccttgaac tactaccccc agaacatcac	240
catgaagtgg ctgaaggata agcagccaat ggatgccaag gagttcgaac ctaaagacgt	300
attgcccaat ggggatggga cctaccaggg ctggataacc ttggctgtac cccctgggga	360
agagcagaga tatacgtgcc aggtggagca cccaggcctg gatcagcccc tcattgtgat	420
ctgggagccc tcaccgtctg gcaccctagt cattggagtc atcagtggaa ttgctgtttt	480
tgctgctatc ttgttcattg gaattttgtt cataatatta aggaagaggc aggggttcaag	540
aggagccatg gggcactacg tct	563

<210> 218
 <211> 391
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (112)..(112)
 <223> n is a, c, g, t or u

<400> 218	
gccagacaac ctgagtgtga atccagcttc accacttcat tcattcactc acccattcat	60
tcaacaacat atttgaagca catactttgt accagggacn tttccaggca cnggactaca	120
gctatgaaca agacaaacag tccctagcct cccaagagcc gtcacttcag aagggcagac	180
atgacacgca aacaaaatga tgccaggtgg taccaagtgc cttggggaaa cagtgccacc	240
tttctgagac cgtttctcca tccgtccatg gagctgataa caccagtccc tcaggggtgga	300
gggtgaagact aagagggtgc tttgagaggg ggaacttggg ggcttttttt caccacctag	360
aacctggcac atactaagct ctcaataaaa g	391

<210> 219
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> n is a, c, g, t or u

<400> 219	
aactacgcct ggtacaagct ggcagaggag gtttctgggc gcacagaagt cactgtgaaa	60

342-42PCT.txt

```

cagccagaca gccgcctgag gctcagccaa gccagggga acctgtcggg tctggagacc 120
cggcaggtac agctggagtg tgtggttctc aaccgcacca gcataacctc ccagctcatg 180
gtggaatggg ttgtatggaa gcccaaccac cctgagcggg agactgtggc ccgcttgagc 240
cgtgacgcca ccttccacta tggagagcag gcagccaaga acaatctgaa ggggcggctg 300
catttggaaga gtccttcccc cggcgtgtac cgtctcttca tccagaacgt ggctgtgcag 360
gacagcggga cctacagctg ccatgtggag gagtggctgc ccagccccag tggcatntgg 420
tataagcggg cagaggacac cgctgggcag acagctctga cagtcatgcg acca 474

```

```

<210> 220
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (125)..(125)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (133)..(133)
<223> n is a, c, g, t or u

```

```

<400> 220
gggaccttgt aacttccttg caagttaagt gagctatcct gtcacggttt tatgttgagt 60
gagtgggaag ctgggactct gttttacagc catctgtact ggagcctgga caaaccactg 120
gtctntatgg gangccccag cctcacattt ccctggcaag gagagagagg tttagccatg 180
tcctgggtct aggattacag ccagagatg ggcacttaag aagacctggg cattgggtcca 240
gacttggggc aaggctctcc tctgtgaggg atgggtttta ctggtgaatt acctgtgtgg 300
agaagctatc agggccatgt ttagcacact gaagggacca gtctccacca agcactttaa 360
catccctcca gccagcatag attgatctcg tggtacagag agggcaaggt ttttggcccc 420
tgtttgaga ctccatgtct taatcagaga ccacagtttt ctctttgttc c 471

```

```

<210> 221
<211> 527
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (408)..(408)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (439)..(439)
<223> n is a, c, g, t or u

```

```

<400> 221
taaataatgt cctctacgtg ccggtgtgga agtagcccg atgcaattga atgaacaaca      60
gacggtgctt tccaggacgg cgctgtgctt tccaggatgg tgctgtgctt tcattcattt    120
gggtagctcc tctgtgagcc tcccagcgcc gactgcagag cccccactct ccagcctgca    180
agaccccgaa attcaagcca cacaaagaaa ggaggagggg gccggttgga tttactgaac    240
cttataaaaac tgtcagcaaa acagccctta ggcttggaact ccctgctagc cgggtttttac  300
ggtgctgaag tcagcatctt gattcagctg cataaataat ctctgcagt cctgcaaggc    360
ctggggtagg agagggtatg gggaccaggg cactctgtaa gggctggnat aggaacccca    420
gggaataaga cagaccaant gcgggacttc agactccact gcagccggga tcgggttggt    480
gttaatttct taagcaattt ctaaattctg tattgactct ctcatgc                  527

```

```

<210> 222
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (115)..(115)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (189)..(189)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, t or u

```

```

<400> 222
atacatgtgg ttatcttttg ccctgttggt atggataatt tgnaaagaag tgggtttatg    60
tcaccttctc accttcttat aagaaaagctc tgagaatggg catttttgn tttnttggtt  120
gttggttgaga tggagtctgc caccaggct ggagtccagt ggcgtgatca tacctcactg    180

```

342-42PCT.txt

cagcttcanc ttcttgggct caagtaatcc tccccaccca gcctcccagg tagctngtac 240
 tataggtgtg cncaccacg cccagcaaatt ttttaaattt attatagagt gggaggcagg 300
 gtgcggtggc 310

<210> 223
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (169)..(169)
 <223> n is a, c, g, t or u

<400> 223
 cactgtctgt gtgagtccat tcacttcaat accagagcca cctctttgtt tcctatttac 60
 taagaagcca taccagcatg agatctcctt gatagtgtta aatcccactg tggaaagatt 120
 gaaaaatata tcccagcctt accagagggtt acgatctagt gtggaggcna aagacattga 180
 gaagaaaaaa gcaggtgcct cctcctggct ctctgttag gttaacataa tcataattcc 240
 cctttgaaat gtctcccaca tttgcccttt aacttcctat tgc 283

<210> 224
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 224
 gacgactacg gtctggacaa ctttgacaca cagttcacca gcgagcccgt gcagctgacc 60
 ccagacgatg aggatgccat aaagaggatc gaccagtcag agttcgaagg ctttgagtat 120
 atcaacccat tattgtctgtc caccgaggag tcggtgtgag gccgcgtgcg tctctgtcgt 180
 ggacacgcgt gattgacctt ttaactgtat ccttaaccac cgcataatgca tgccaggctg 240
 ggcacggctc cgagggcggc caggacaga cgcttgcgcc gagaccgcag agggaaagcgt 300
 cagcgggcgc tgctgggagc agaacagtcc ctcacacctg gcccggcagg cagcttcgtg 360
 ctggagggaac ttgctgctgt gcctgcgtcg cggcggatcc gcggggaccc tgccgagggg 420
 gctgtcatgc gggttccaag gtgcacattt tccacggaaa cagaactcga tgcactgacc 480
 tgctccgcca ggaaagtga 499

<210> 225
 <211> 562
 <212> DNA
 <213> Homo sapiens

<400> 225
 tcttctgtgg aggaatggca tcccaggcct tcacccctcc aggtcagccg tggctgccgg 60
 ccaagatggc cgcgtgggca gcctcacatt ccttctcggc ttttggcccc atgtcctcgg 120

342-42PCT.txt

cactcaggtc tgcagttcag cccaagtgtt gagactcagg tatgcagctc agggcggcct	180
taattaaccc tcccatgggc ctgggcaccg cctgcgcctc atcaactctg ggctgctggg	240
tttgttcctg acgctgcagc ctgacactgt gggcgggggg gcagtttgcg atggaaggct	300
gcctccgaat cgaggaagcc ttgaccttgg gaggggcctg ccttttcgct gggcttgcct	360
ttctctgggc agcgttcgct cagcacttca gtgcggccga ttcccctggg actgaattca	420
caccagccac gacgacttcc cggctacttc acgttctcta tgtttgagc tggtcttttg	480
tggcagaaaa agatgatttt tcttcccccc actcccattc ccttttgcta gtttctctcc	540
ctgaaccaca ttttgagctg ag	562

<210> 226
 <211> 47
 <212> DNA
 <213> Homo sapiens

<400> 226	
ttccagaatt tcttccgagg tagtatgggtt ttcttcatag gataaag	47

<210> 227
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (476)..(476)
 <223> n is a, c, g, t or u

<400> 227	
aggcagcgct gcggagagga gcggcagagt gggttgtctg ccgcaggcaa ccaggcaagt	60
gtgtcggggc tgggggtgtga atgccagcct gtgagtcccg gaactatgtg ggtaccacct	120
cccctcacag aagccaaggg catggaggag gtccctccac agtgacaacg gtgtggggta	180
ggggagggtgc attcaggaca ccaccaggg acagtgccta tgtgatcacc tcttaaaggc	240
taagcttagg ggcatttccc aaagtgggga cagagggcag gacgcccagg ctgggggctc	300
tcctcgcccg ccctgggtgtc tgacagcctc aaggaaggag cagtgcctgt gtcagccatg	360
gggccccttg agctgccgct ggtgcctagg gggcctgggt ttctgcccag gcagccagt	420
gctgttgga gcctctgttt cccctgtgct gggggccttg agtgctatgc tagcangggc	480
ctggcccca gtgtgagtga tgagcaataa acgtaccgtc ccc	523

<210> 228
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 228

342-42PCT.txt

aagtgcgaag tcagggatgg tctaagaggg ctgagaggag aattccggaa cctcaggacc 60
 ttgctcactg gctgctggct ggggctgtga agctgtccag tctagaactc aaagagtgat 120
 ggtacaggct ttagagcc 138

<210> 229
 <211> 396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (198)..(198)
 <223> n is a, c, g, t or u

<400> 229
 gggctgggta cctcttctgg ttgctgagtg gagtgcacca gcagccccac cccagagaag 60
 ccctgttggga agcgtgtgtg gaatccccca aggtagggga gtggacacca taaggaaggg 120
 gaggagtgcc agctccatat gcggtctccc ccatcagtcg gccagcagc gggttcagct 180
 gcctctgggc agccctancc catacagaca gggagacctc cctcccgatc ttctgtgaat 240
 agtcccttat acccctgctt atgcctcagg ggctcctcca cccttttgtc ttcatactgc 300
 atatgaaaac tgcccttgta tatgtggata tctgaatgtg tcagtgaagg cctatatgaa 360
 tgtgcacatg tgggtatgtt ctcagccatg tgtata 396

<210> 230
 <211> 432
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (39)..(39)
 <223> n is a, c, g, t or u

<400> 230
 gaactaaagg agccatctct ctccccctctc ctccgttcnc gagaggaggg gtgggtctca 60
 gacgtttttc ctatggactt atttcttcca tgtccaggac tttgcacaac tttggtttta 120
 aaagctgttg aaaaatagga aaacaaaggg cattgttcac agatagggcc aagtctcccc 180
 ttgcaagggt gcctctgttc tgtccctgcc cccacctcac cttctctact cctccagtaa 240
 gttggcagtt ttggtgccaa accccaaatc tccaaagaga catgccaggc aagacaaacc 300
 cccaaacacc tcctttccgg tggccttgga aacagattgc tccgagctgg agaatgtcgg 360
 gtgaggtgta tgggagagga ggggagagtt agaacttgtg cctttgggag taaggggtaa 420
 ctgcctggag gg 432

<210> 231

<211> 549
 <212> DNA
 <213> Homo sapiens

<400> 231
 atcagtgcc gaaattcctt acctaaagtg gcatatgcga cggccatgga ctggttcata 60
 gccgtctgtt atgcctttgt attttctgca ctgattgaat ttgccactgt caactatttc 120
 accaagcggg gttgggcttg ggaaggcaag aagggtgccag aggccctgga gatgaagaag 180
 aaaacaccag cagccccagc aaagaaaacc agcactacct tcaacatcgt ggggaccacc 240
 tatcccatca acctggccaa ggacactgaa ttttccacca tctccaaggg cgctgctccc 300
 agtgctcct caaccccaac aatcattgct tcaccaagg ccacctacgt gcaggacagc 360
 ccgactgaga ccaagacct caacagtgtc agcaagggtg acaaaatttc ccgcatcatc 420
 tttcctgtgc tttttgcat attcaatctg gtctattggg ccacatatgt caaccgggag 480
 tcagctatca agggcatgat ccgcaaacag tagatagtgg cagtgcagca accagagcac 540
 tgtataccc 549

<210> 232
 <211> 554
 <212> DNA
 <213> Homo sapiens

<400> 232
 gatgagtcca tctcacttgc tcagaacttt gcctgggtgag agcgggttaca agcgaacaag 60
 gtggaaatga aagaaacct gactttccca ctaggaagga agagactgtt ccttcttgtg 120
 atgtactctg aagaaaaatt ctaggatttg gacagatttc ttgggttata aaacatgatt 180
 ttcttctctg tttcttgggc ttttataatg ggtactgttg ttttcttgca aagctttaat 240
 gattccataa ggacttgtat aaagtttatg ggagaatttt caatgtagat gtgaatggca 300
 gaaaccaag aatctgtgtg aggttgaata agatcctgtg tctccagaga ggtctgatgg 360
 ggagacacag atctaaattt taaagggtgt ttgggccttc tcaatcatat attaagggtc 420
 ttttatgtta tagataagta aattaaggcc cagaaagatt aatagcccaa ggtcccaaga 480
 cctgcttgag acctgtgccc catttctgac taatattctt catgatattg tatcactctg 540
 tatcaaaacc aacc 554

<210> 233
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 233
 gatggtgcag tacctgctag cactttgctg cagaatgcct ctgcactcag ttctgcaaat 60
 gtactgtttt agtttcatctt aaaacccctt tttttgtgag aagatttcaa acatcaggca 120
 agtttgtaat gaattcaagc tgagttctct cgaggggacaa acatgtataa ctacagttcc 180

342-42PCT.txt

agtgtcagtg ccagctgtca ggttttcact gtgcagctag ggctgcctgc ataccagtc	240
atgtaaacca aattcactct agaatcggcc aggtcttacc aaaatgcaaa tagaatacaa	300
agcaactgga aatatatttc gtaatttcat tttatgtgtg atttttaaag ttaagctact	360
tcaaaactca tctgtctaac ttattttcac taataagtg aacttgctg gaatttggca	420
gatctaagct gggcttgggc tagatggttt caagcctgag tcattaagat gtgaaattta	480
cagaaacaac agaggattga ggaacaagtt aaaggacact ctaatgggtgc agtctgcat	539

<210> 234
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (102)..(102)
 <223> n is a, c, g, t or u

<400> 234 gtgagcatgg aagtagatct tccccgggtca agccccaga aggaccagc cctgcggaca	60
ccttgaccga aacctgtgag agctccggaa atagaggaaac cnagcattcc ctctggaata	120
catcagcact gttgcctttg aggttggcct gcttgaatgc acacctgagc tccggattca	180
cagtggagga agccagatgc catgtcatga ggggtgctcaa gcaacttttt ggagatgtat	240
gtatggagag aaactgaggc ctcttgccaa cagccagcac taacttggca agcatgtttg	300
agagccacct gggagtgga gccttcagcc ccagttaagc cttcagatga gactgcagtc	360
ctggccacca tctggactgc aacttcacaa gagctcctaa gccagagcca tgcagatgga	420
ttcttggccc c	431

<210> 235
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (139)..(139)
 <223> n is a, c, g, t or u

<400> 235 gatctcattg cctttttatg ccgattaaca tgcttttagc ccctactgag cttatagtta	60
acagaagttt ccaggtcttt cttcacctga actgtgtcta aagcaagttc cctccacctt	120
ctgtatttat acgcttgant ttttaaaacc taaatgttgg gcttcacatt tggtccttgt	180
aaatttcatac ttggtgattg cagtctaccc tctggccttt aaaaattgtc tgagccttga	240
ttcgatcatg aaaccagctt acccttcccc tgtgtgctgg cccagtttt ctaaccaggt	300

342-42PCT.txt

gttgaatgaa ctggatggac tctgccagat ccctccgtgc aaggctggaa tcagtccatt 360
gttcaactgt gccctttggg gctgtggttc atttggtctt gat 403

<210> 236
<211> 257
<212> DNA
<213> Homo sapiens

<400> 236
ctgctggaaa ggcacacctg ctgcagctgt gagtgtgatg ggacagcaga gtcactcctg 60
catgggattc tagggctggg ggtcccagag ggggtggcctc cgccctcctt gggggccgag 120
gactgtcacc atgtcactac ggcactctcc agctgctgac caaagccctc gctaaccgca 180
gccctgccat actctgggtc tttcctctgg agcaagggtga agagactgca gcgaggcgtg 240
gaattgggaa gctcttc 257

<210> 237
<211> 446
<212> DNA
<213> Homo sapiens

<400> 237
actgtgactg cgcgaggac gagaactgca agtccaccaa gcgcgccatt gagccgtgcc 60
tgccccggac gagcggcggc ggcgcggggc gccccggcgc gggcggggtc atgggctgca 120
ccgaggcccg gcggcgctgc gaccgcgaca gccgctgcaa cctggcgctg agccgctacc 180
tgacctactg cggcaaagtc ttcaacgggc tgcgctgcac ggacgaatgc cgcaccgtca 240
ttgaggacat gctggctatg cccaaggcgg cgctgctcaa cgactgcgtg tgcgacggcc 300
tcgagcggcc catctgcgag tcggtcaagg agaacatggc ccgcctgtgc ttcggcgccg 360
agctgggcaa cggccccggc agcagcggct cggacggggg cctggacgac tactacgatg 420
aggactacga tgacgagcag cgcacc 446

<210> 238
<211> 340
<212> DNA
<213> Homo sapiens

<400> 238
ggaacagagg agagatgccg gctggaggac acagcaaatt tgaaccaaga ggagcttggg 60
ggaagcccga gcgacctgga ggggactggc tgaccttcct cattcttttc aagtgtgaat 120
aataaccaag ccagttttgg caactccttg agggtgagga cgaagcccca ttctcctttt 180
tggaacttgg tggggctcag gaagcagggt ctctccagtc ggtggctttc ctttctgttg 240
cgggtctctt gagggcctgc cttcatgaag gcacatgagt gactcatcat ttgtgaatta 300
attgctatat gtgaagggca tctgagaaca aattatcttc 340

<210> 239
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 239
 tgaccgccat gtggctgtgt ctgaccgcct gcgatactcg gccatcatgc atggagggct 60
 gtgtgctagg ttggccatca catcctgggt cagtggctcc atcaactctc ttgtgcagac 120
 tgctatcacc tttcagctgc ccatgtgcac taacaagttt attgatcaca tatcctgtga 180
 actcctagct gtggtcaggc tggcttgtgt ggacacctcc tccaatgagg ctgccatcat 240
 ggtgtctagc attgttcttc tgatgcacac tttctgcctg gttctgttgt cctacatccg 300
 gatcatctcc accatcctaa agatccagtc cagagaagga agaaagaaag ccttccacac 360
 gtgtgcctct cacctcacgg tggttgccct gtgctacggc acaacgattt tcacttacat 420
 ccagccccac tctggtcctt cagtccttca agagaagctg atctctgtct tctatgccat 480
 tgttatgcct ctgctgaacc ctgtgattta tagtctaagg aataaagagg tgaagggggc 540
 ctggcataaa ctattagaga 560

<210> 240
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 240
 ggaaatagtt tgttcatatg gccaaattat aaagggactt agtaaaagaa agctatgttt 60
 tctgattacg aaggaaatct atgctcacag tgggaaaaca agaaaatgtg gcaaagcaca 120
 ggtaagaaaa taaaaatcaa taatatcaac attatgaata ttttaggtac ttaggaattt 180
 ggggtagaat gatggaaagc aaactgttaa ttatagctgt atatttcagt gtagaggcta 240
 cagggtgcctt gcatttgttt tcttataaaa tctgttccca tacattttac ttactttatt 300
 tgaatttagg aaactttcat taggtagcca tttttatttt ctgtttcttt aatcatttta 360
 ctttgaaata attttaaatt tacagaaaat ttgcaaaaat agtgtagaaa tttcccattt 420
 gcctttatcc agcttcctgt agtggtgcca ttttatgtaa ccatagtaca attattgaaa 480
 ccaagacatt aactttgaga ggctgctact actctaagaa ccat 524

<210> 241
 <211> 504
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (71)..(72)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (197)..(197)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (219)..(219)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (309)..(309)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (346)..(346)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (390)..(390)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (395)..(395)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n is a, c, g, t or u

<400> 241
 tcctgtgtct tgaccagaa aattgtgaca tgtaaaaaga ataaattcct ggtttaagcc 60
 agtaagggtta nnggtacatt gttacatctc agataattaa aaccttgaaa aactcatgag 120
 agatcacaag tagaaccttg atctgaaaca tggcatgtgg cgatttatat tgagtattag 180
 gttaaaaatg caagaangga gcatagttaa tattttacnt taaagctaaa acnataattg 240
 cctacttaaa attttcagtt aattagggttg tcactttttg ttcttaacna agaaatcaac 300
 tagttttant ccataaacag ttagaactga tgcacacatc cgttnttcct tactcatttt 360
 aaacagctat ctgaaatagg aagtgtaatn taatntttta agaacttgaa aacatgacag 420
 aaatgtttta actataaaca tatattgtat atgttagcat attgtatata ttgnatatta 480
 acataagcta gaatcattga cata 504

342-42PCT.txt

<210> 242
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 242
 cgaaccactc agggctcctgt ggacgctcac ctagctgcaa tggctacaga ggctggaaga 60
 tggcagcccc cggactgggc agatcttcaa gcagacctac agcaagtctg acacaaactc 120
 acacaacgat gacgcactac tcaagaacta cgggctgctc tactgcttca ggaaggacat 180
 ggacaaggtc gagacattcc tgcgcctcgt gcagtgccgc tctgtggagg gcagctgtgg 240
 cttctagctg cccgggtggc atccctgtga cccctcccca gtgcctctcc tggccttgga 300
 agttgccact ccagtgc 317

<210> 243
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 243
 aatgccggct ggctcagtga tggctctgtg caatatccca tcacaaagcc cagagagccc 60
 tgtggggggc agaacacagt gcccggagtc aggaactacg gattttggga taaagataaa 120
 agcagatatg atgttttctg ttttacatcc aatttcaatg gccgttttta ctatctgac 180
 caccaccacca aactgacctg tgatgaagcg gtgcaagctt gtctcaatga tgggtgctcag 240
 attgcaaaag tggggccagat atttgctgcc tggaaaattc tcggatatga ccgctgtgat 300
 gcgggctggc tggcggatgg cagcgtccgc taccatctct ctaggccaag aaggcgctgc 360
 agtcctactg aggtctcagt gcgcttcgtg gggtttccag ataaaaagca taagctgtat 420
 ggtgtctact gcttcag 437

<210> 244
 <211> 389
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (299)..(299)
 <223> n is a, c, g, t or u

<400> 244
 tagatcatgc cctcattggg cttacatgct gttgaaaaga taggatataa atccatgaaa 60
 atttttacaa tgctatttat taacaataca tgacaagagt actagaaatg ttacttgtga 120
 ctattttgtc tattctagcc aagctgggatg cctggctgtt tctcagttat actaaatgag 180
 ttctgctctc agggctcttca tacttgccct tccctctgcc tgcaacactc ttcctccagt 240
 tttttttttt tttttttggc tctctccatc actttaggct tccattaaaa ctgtcagcnt 300

342-42PCT.txt

tcagggaagt tgccttcctt gaccacaacc acactaattc aaataccaat ccttccccgc 360
ctcgttttgg taactctcta gtctcttat 389

<210> 245
<211> 136
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (68)..(69)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (91)..(91)
<223> n is a, c, g, t or u

<400> 245
gcccccaaggt ctttaagtat ctctgtcact tattagctca ccagagaaga cacaggaatg 60
agaggccnnt tgtttgtccc gagtgtcaaa naaggcttct tccagatatc agacctacgg 120
gtgcatcaga taattc 136

<210> 246
<211> 369
<212> DNA
<213> Homo sapiens

<400> 246
ggccctgggc taagtcgggg atgaaggcgg gagctgctgt gctggactgc agctcagcac 60
agagacagtg agcctagatt gcagagctgc ccaggagggg atgtcacctt gggggatgga 120
ggctgcaggt gtcctcaga ccttagggaa acatttggga gggagcttgt tgaggagata 180
caggcacctc aggggtggctg ggctggatgg actttgatga cccttccttt tttgagacct 240
gatggttctc taatttggga atcatttcca aagatgggtc taaaaatcct tgtttcattg 300
gaaataatga gtttgctatg atgcttaaga ccaagcatgt caccatttgt tattactgca 360
cttttcctt 369

<210> 247
<211> 444
<212> DNA
<213> Homo sapiens

<400> 247
gaggcttttg acacagttat tagttaaatc aaatgttcaa aaatacggag cagtgcctag 60
tatctggaga gcagcactac catttattct ttcatttata gttgggaaaag tttttgacgg 120
tactaacaaa gtggctgcag gagatttttg aacggctggt ttaaattggct tcaggagact 180
tcagtttttt gtttagctac atgattgaat gcataataaa tgctttgtgc ttctgactat 240

342-42PCT.txt

caatacctaa agaaagtgca tcagtgaaga gatgcaagac tttcaactga ctggcaaaaa 300
gcaagcttta gcttgtctta taggatgctt agtttgccac tacacttcag accaatggga 360
cagtcataga tgggtgtgaca gtgtttaaac gcaacaaaag gctacatttc catggggcca 420
gcactgtcat gagcctcact aagc 444

<210> 248
<211> 394
<212> DNA
<213> Homo sapiens

<400> 248
ggggcggcgg aagcgagtag agtttgtgac atttgtgcca gcccctccag ccagtcacc 60
tgaggagcct gtagggggccc ctgctgtgca gtccatcctt gtggcaggcg aggaggacat 120
ccgctgggtg tgtgaggaca tggggctgaa ggaccctgag gagcttcgca actacatgga 180
gaggatccgg ggcagctcct gaccctccac agccacctgg tcagccacca gctggggcaa 240
cgagggtgga ggtcccaactg agcctctcgc ctgccccgc cactcgtctg gtgcttgttg 300
atccaagtcc cctgcctggt cccccacaag gactcccatc caggccccct ctgccctgcc 360
ccttgtcatg gaccatggtc gtgaggaagg gctc 394

<210> 249
<211> 414
<212> DNA
<213> Homo sapiens

<400> 249
tttgctttgg gtactgtgat aactactttt tatactttat cccattttaat tataaaaaacc 60
actcttgaga agtaattttt attttcagaa ccattttaca gatttaaaat aaacagggttt 120
gaggaattag tttaacttat ccaaagtttc gtggctatta agttctagta tttggagtca 180
aatgcaagtc tgtctaaatc tagagcccat gttctttaac tgcaacacta taatgtctca 240
ccccgtccta gtcccaccaa ttagtcaact cttttagggc agaagtctgt ctaattcatc 300
tttgcttctt gttactttat atttaattaa aaattttagt gactttttaa cttgtaaatt 360
gtagctgatt ttacatttat ctctctgaag gaaactctgt atcattttgt cttt 414

<210> 250
<211> 268
<212> DNA
<213> Homo sapiens

<400> 250
cttttattag aatgccatgc ctgcttatgt tatgcatgta ttttataata atttaattcta 60
ttttacaatt ttaaactcaa atatgattta gtattatgca cataatacaa acagtagtgg 120
tgagcaaacg tgtgtttccc ccacatgtgc agaatatgat ggattttatg aaaataaata 180

ttcttaactc caggaaatat gatctatatg gttccttaaa agattttcca atacactgaa 240
aatttagttc cttatgttca ttgtataa 268

<210> 251
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (131)..(132)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (156)..(156)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (187)..(188)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, t or u

<400> 251
cgtgcagcag atcccaggag ttggaaaagt taaagctccc cttctcctcc agaagtttcc 60
aagcatccag caactgagta atgcttccat tggggaactg gagcaggtgg tcggacaagc 120
agtggcacag nnagatccat gccttcttca cgcagnccca ggtgagggct ggcctcaggg 180
ccacggnnat cttctcccgga gaccacaaac accaggatct tgttttcagn tttaaaaacc 240
aagagaatgg gccgggtgca ctggctcacg cctctaattct cagcactttg ggaggccgaa 300
gacagcggat catctgaggt caggagttca agaccagcct ggccaacatg gagaaacccc 360
taaaaatagg aacaattagc caggcatggt gacaggtgcc tgtaatccca gctacttggt 420
aggccgaggc atgagaatca ctt 443

<210> 252
<211> 281
<212> DNA
<213> Homo sapiens

<400> 252
gagaaattcc cacactaaaa acactacaag tttttggaat cgtgccagat ggtacccttc 60
aactgttaaa ggaagccctt cctcatctac agattaattg ctcccatttc accaccattg 120
ccaggccaac tattggcaac aaaaagaacc aggagatatg gggcatcaaa tgccgactga 180
cactgcaaaa gccagttgt ctatgaagta tttattgcag gatggtgtct cttctttaga 240
acagggaaaa taggcaggaa gcccaattgc tggagtactt a 281

<210> 253
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 253
 ccaaatatct agattctgat cccttttgag gtcttagacc ctttgagaaa ctgatgaagc 60
 caggcacctc cttcctcagg aaaatgctgg tgtacaaata cacacaaagc tcttcaggca 120
 gctgatagat ttccccaga gagctattca aggacttcct aaggtgggtg gactgcaggg 180
 ttaggacacc tgctatagag gtgacatttt tccaaggaca agcagggact ttgggtcttga 240
 ctgtttctct 249

<210> 254
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 254
 agaagagcct gaacctcaac atcttctga agcaatttaa gtgctccaac gaggaggtcg 60
 ctgctatgat ccgggctgga gataccacca agtttgatgt ggaggttctc aaacaactcc 120
 ttaagctcct tcccgagaag cacgagattg aaaacctgcg ggcatcaca gaggagcgag 180
 ccaagctggc cagcgccgac cacttctacc tctctctgct ggccattccc tgctaccagc 240
 tgcgaatcga gtgcatgct 259

<210> 255
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 255
 aaattctgca atgaacccta caccgaccgg acagaagaaa gggaagaatc caaagaggaa 60
 gaagactggc ccctccgacc tgtcctttcg ggagctgaga aagatgacga agctgagcgt 120
 ctgagagaaa caacagaaga cggagaagac ccgccaggct acaccaccga catgagaaca 180
 gataaagaag ctgactcaaa tggcagaggg cagcctaaag gagaaacaac tggcaattat 240
 cccgggtaat atgatcttgg ctgccttgat ggtaattacc gcggcggtaa gtctccctgc 300
 tgtctggact gaagaaaatt ttacatactg gcttctgttc catttcctcc ttttaattagg 360
 ccagttactt ggatggattc ccctattgaa gtttatacaa atgatagtat tttggatgcc 420
 tgggccgatt gatgatggct gtctgcaca gcctgagaag gagggatatgt tgatgaatgt 480
 aactggtatg aataccctcc aatttgttta ggaattgctc cttgatgttt accat 535

<210> 256
 <211> 230
 <212> DNA

<213> Homo sapiens

```
<400> 256
ggaagtaatg acttttttgc ccatttactc actgagtgccc ataatgtggg aaatgtataa      60
tgctgacatt tggtccgtcc ttatagattg aggatagtag gccccctgaat tttgccttta      120
ctttagaaac ctgattcaac ttaaccgaac tctcaggaat ctgattccta agctgagtat      180
cacattttag attacttact aatttgtgca tctatccacc tagcaaatat      230
```

<210> 257
 <211> 532
 <212> DNA
 <213> Homo sapiens

```
<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, t or u
```

```
<400> 257
taaaaccaac cagctgaacc tttcaggcta caagagaacc cgggtcggta atgtcttttt      60
aagaataatt tttaattgct tataacaagc atatttngtg gcatttgaac tatatttact      120
gctccaatat ccgttatttt ccaaaggatt tngtatcttt ttgaaaatgt ttacatcatc      180
agatgatcca cagaattcac tttatgtgag atctcccgag agtttccatc ccaacataat      240
ggacttttgg ttgaacacaa ttcgtttttt catttgaatt ggcatttccc aatatttgtc      300
aaacatttgc tggagaaatc atttttcttt tttctttttt agaaaactca gaatgaaaat      360
tcattcccct gaaatattta ggtgtctata ttctatattt tgatctatta agggattagt      420
atttttccat gtttattgtg ttatcagagt gcattagaaa gattagtgat tcatcttcac      480
agcacatttt taatcaagca gttatttcaa ccagcacatt cgttttggtc at      532
```

<210> 258
 <211> 489
 <212> DNA
 <213> Homo sapiens

```
<220>
<221> misc_feature
<222> (363)..(363)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (441)..(441)
<223> n is a, c, g, t or u
```


342-42PCT.txt

<400> 258
 atcacccct gttcattatg tcaggcctca tgggagcctg gccttctcca gaagctggcc 60
 ccggcgctct cccaagctgg accacgtagg cccagatca cacctggggg tccagatgta 120
 ggggtcccggt gtgcacgccc aatcagaccg agcacttggt acactacccc aacacctctc 180
 ccagggtctga atgaggaacg cgccactgga cacatgagga agaggctgcc ctgggagcta 240
 ctgatgctgt gacctcacct ctctggcttt gggcggcagg tccctgcacc taggatgcct 300
 gcctggaaat gtoccttgcac tcgtggcctc cttcacagcc tcctcctcag agaagcctct 360
 gcnagtgcac agggagtgtg tgcagccttg tgaagggtg ggaccacttg cccagactgg 420
 ggccctcag gcacaggcgt ngggtcctac tgacctgtct cccagctcc cacacagaaa 480
 gcatctaaa 489

<210> 259
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 259
 cagaaggaaa cgggtgtctct cggctgtggc tctgagtga aattgcatgg gcggaaaggc 60
 gggggtggct gctcttctct gcaggcctgg gccatcagcg aactggggcc cgtgaggagg 120
 gcgggagtggt ggaggagggt gggcctctca cccaggcttt ctggccccct ctctcagct 180
 tgcagagctg gccagcccc tccttagggg gtgggagagg agcctctggg cagacccaag 240
 aaccatgggg actgggggtg gttggtggca ccaatggcag ccctccccgc ccctctcctt 300
 caaggagggt tcccgcagct ggggggtgtg cggaggcgca tggcctcccg ccacggggcc 360
 gtgctgtgtt tatggctggc agaggcagcc agcgggtggg ggattctgct gctcgctcac 420
 ctgcctggct cgctgggtctc tcgaattttc ttccctctga aatcctat 468

<210> 260
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 260
 ctgcaccaac tcatgctgga ctggtggcag aaggaccgca accaccggcc caagtctggc 60
 caaattgtca acacgctaga caagatgatc cgcaatccca acagcctcaa agccatggcg 120
 cccctctcct ctggcatcaa cctgccgctg ctggaccgca cgatccccga ctacaccagc 180
 tttaacacgg tggacgagtg gctgaaggcc atcaagatgg ggcagtacaa ggagagcttc 240
 gccaatgccg gcttcacctc ctttgacgtc gtgtctcaga tgatgatgga ggacattctc 300
 cgggttgggg tcactttggc tggccaccag aaaaaaatcc tgaacagtat ccaggatgatg 360
 cgggcgcaga tgaaccagat tcagtctgtg gaggtttgac attcacctgc ctcggtcac 420
 ctcttctctc aagccccgcc ccctctgccc cacgtgccgg ccctcctggg gctctatcca 480

ctgcagggcc agccactcgc caggaggcca cgggcacggg aagaaccaag c 531

<210> 261
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (210)..(210)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (331)..(331)
 <223> n is a, c, g, t or u

<400> 261
 cctcggacac cagagacaat aactgagcgc ggaggacacg cctgccctgc ctgccatctg 60
 tggcccgaag ccattgccat ccactgcaga cgcctggaga gggacaggcc gcttccgagt 120
 gcagtcttgg cgcagcaccg actcccacgc acccggggaa ggacaccctc actcccacac 180
 cccgggaaga aactagaac atcagcagan gggccctgcc cctccgcctg cagccgtgaa 240
 aggaagctgg gtcacagcc cagccccgcc caccacagcc cctatgtgtg tttccctcaa 300
 taaggagatg ccttggttctt ttcaccatgc naataacatg cccagcaaaa acttgcttta 360
 tgggtctgcc tggagaaaa 379

<210> 262
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 262
 aaccacacca gaagacatcc tcaggaacaa aggctgtccc agctctacca gtgtcctcct 60
 cacccttgac aacaacgtgg tgaatgggtc cagccctgcc atccgcacta actacattgg 120
 ccacaagaca aaggacttgc aagccatctg cggcatctcc tgtgatgagc tgtccagcat 180
 ggtcctggaa ctcaggggccc tgcgcacccat tgtgaccacg ctgcaggaca gcatccgcaa 240
 agtgactgaa gagaacaaaag agttggccaa tgagctgagg cggcctcccc tatgctatca 300
 caacggagtt cagtacagaa ataacgagga atggactgtt gatagctgca ctgagtgtca 360
 ctgtcagaac tcagttacca tctgcaaaaa ggtgtcctgc cccatcatgc cctgtctcaa 420
 tgccacagtt cctgatggag aatgctgtcc tcgctgttgg cccagcgact ctgcggacga 480
 tggtctg 486

<210> 263
 <211> 350
 <212> DNA

<213> Homo sapiens

<400> 263

tctccgtgga ggctatggct tcagacaggc cccgaaggtc tgtcaccaat gtgctcgggt	60
gtgggtcaca taacgctctc tggagggtt gcctttcagc ttgggatcat gaaaagatga	120
tttgacgctg tttctcatgg tctccgacct aataaagcaa gataagagaa aacaaatgtt	180
attttaaaaa aatcaccctt tggcaaaaga aacatgtaaa attagaatct ggcacaaaca	240
aaacctgaat ctgggttgtg aactttcacc acccgccgca actctttgat aaaacctcaa	300
gtgatatcta ttaccattgt aaaaataaag cctgccccta tgcttagaat	350

<210> 264

<211> 507

<212> DNA

<213> Homo sapiens

<400> 264

ggcaaccggg gaagtattgt ggcttggag tttgctaaat ccaaatatga aaatcaaaaag	60
ctttagtatt cctcatcttc tcttctggaa gatttgctgt agagtttttg ttgggccttc	120
aaaaagctgt gttcagagtt aggagaatat atccaataaa agatgggttc gtctaccaat	180
tggggaagtt tcaccctctc cctatctgaa gaaaaaatc aaaaacaaat gtccccggat	240
ctttcgatgc aagtctgga ggcagggaga tcaactgctg cctggcccac gctgctggga	300
cggctcgtcc tccctgcttt ttgtttttca aacctcctgc ttctcccacc ttgggaagga	360
gaaatgtgaa acccggcagc ggccgacctt ggcggtcttg tggcccgag ccggcccggc	420
ccgaaaacca tagacctggt tgtactgtag cttgttgttt gggggaccaa attttctaga	480
gagaactaga gcacttttgt tgtgttt	507

<210> 265

<211> 192

<212> DNA

<213> Homo sapiens

<400> 265

cacaggcctt cagaggcgat ggctgggcca cagtgcgaa agcaaagcaa agcagggtg	60
tggagacact cctcgcatth gtctcttccc tccaaggatt atctgagcaa gtcgacttgt	120
tcattcaaag gcggggtctg ccaagccctg ctctatccaa tggggatagc ttctacgtaa	180
cggattccaa tt	192

<210> 266

<211> 202

<212> DNA

<213> Homo sapiens

<400> 266

agagcaacag ctctatatct ggatcactgc agtgcctaga agatacaaca gcacaattta	60
---	----

342-42PCT.txt

caaatccaaa tttccaggaa gtctctgcac atacctctag tacaaaagat gtttcagaga 120
 ctagaggggtc agaaggcaaa gagaggcaat attcaactcc cagttcaggt caaaagggaa 180
 gaaagcctgg tgttgaaaga aa 202

<210> 267
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 267
 gaaccacggt ctttgtatgg gcccaatgag ctgtcaagct gccctgtggt catttcattt 60
 ggaattgccc cctctggttc ctctgtatac tactgttca tctctaaaga cagctcatcc 120
 tcctccttca cccctgaatt tccagagcac ttcattctgt ccttcatcac aagtccagtt 180
 ttctgccact agtctgaatt tcatgagaag atgccgattt ggttcctgtg ggtcctcagc 240
 actattcagt acagtgttg atgcacagca ggcactca 278

<210> 268
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g, t or u

<400> 268
 ctcttggcct gatactctag ggatgcaggt gggagaagca ggggtcctgg gggctgcctg 60
 gagctctggg aggcattctg aacgggggtct actactgatc tcaggtgagc tctgccctcc 120
 tctgaaagtc acttttctca tcagttaaatt gggggcaagg gtccgtggtc cgaccaagggt 180
 cttggcttca cagacatcac caggagcctg catgccctg atcactcctt ctcttctctc 240
 caggaaactc cagcctggcc tctgacccca gttcaatccg accatgcca agcccaagcg 300
 gncctttcct ccagaactgc tccggggcct ggctgtgtga ctggagcaag gtgctaaacc 360
 tctctgtgcc tcgctgggtct aatctgtaaa at 392

<210> 269
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (240)..(240)
 <223> n is a, c, g, t or u

<400> 269
 taatctcatc caaaaccatg ctcacagaca caccagcat aatgtttgac caagtatctg 60

342-42PCT.txt

```
ggcaccttgt ggttcagtca aattaacaca tattaactac cttagcaaga tgaaaagcag 120
tgaatgcagg atggtgggtg aaattttaaa tacgttgggtt atatagtctc attgaaaaag 180
gaacatttga gtgaagactt gaaggggtgg tggaataaac catttatttg cttattgccn 240
gtctccctct atcagaatga aagcttcatg aagcgagaga ctttaattttt atctgttata 300
tccctagtgc ctggtgcagg gtaagtactc aaaaatattt gttgagtga taagtaatga 360
ttgaggatgg ggactgggtt gtatctgggtt atatctcttg tccttagcac agtacct 417
```

```
<210> 270
<211> 412
<212> DNA
<213> Homo sapiens
```

```
<400> 270
ggggccctag ggattatagc caggactcta atctgcctac catgccattt aacaagagat 60
cccactctcc agctgccttg tgtccctagg gtcctggcca tgtgtttagt gtgctaaact 120
ttctcctttg ttctcaggcc ttccaggtag tcccttctct ggacttaaga gtgcaaactc 180
ttctctgtgg ttctagcctt gggcagaatt atatcccaga gaccacagag caactgtcaa 240
gctgcttacc cctcaccaca gggctacagc ctgtgcccag cctcttaatt tgtgcctctc 300
ttgtgttggg ggtggtgggg gttattcctt tcccttctct gctctggcct ccttgaaagt 360
tcagagtacc cagtacaagt cagccaccat gctgacgggt atttttctct at 412
```

```
<210> 271
<211> 372
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (76)..(76)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, t or u
```

```
<400> 271
tagccaggta tagtggcagg aacctgtaat cccagctaca ggggaggctg aggcaggaga 60
atcgcttgaa cccggnaggt gtaggttgca gtgagccgag attgcaccac tgcactccag 120
cctgggcgac agagcgagac tctgtctcga aaaaaaaaaa ggtccgtgcc aagctgctcc 180
ctgcccttgc cctttccctt tccctggggg ccaaaccaca tgtgtcctgc ctctcctggc 240
```

342-42PCT.txt

cctaccacat tctggtgctg tctcactcn cccctggccc agaggctcct gaagatgctg	300
ggcggctcctg gcacagggag gagcagctct gtaaactctgt gcacatngcc actcttggcc	360
taataaagga gg	372

<210> 272
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 272	
cctaccaccg tcttcgagag gatgtcatgc ggctctctcg cctagcactg ggctcagagg	60
cctggcgccg agtctggagc cgcagtctgc agctggcgag ttggccaaac cggggagggg	120
cacctggagc tccccagggg gaccctatga gggatattctc agttaggacc cggagacagg	180
acactcttcc tgaagcgggg cgcagatcag aggcagaaga ggaggaggcc aggaccatca	240
gagtgcacacc tgtcaggggc cgagagaggc tcaatgagga ggagcctcca ggtgggcaag	300
acccttgga attgctgaag gagcaagagg agcggaagaa gtgtgtcatc tgccaggacc	360
agagcaagac agtggtgctc ctgccctgcc ggcatctgtg cctgtgccag gcctgcactg	420
aaatcct	427

<210> 273
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 273	
gtccacattc ctgcaagcat tgattgagac atttgcacaa tctaaaatgt aagcaaagta	60
gtcattaaaa atacaccctc tacttgggct ttatactgca taaaaattta ctcatgagcc	120
ttcctttgag gaaggatgtg gatctccaaa taaagattta gtgtttattt tgagctctgc	180
atcttaacaa gatgatctga acacctctcc tttgtatcaa taaatagccc tgttattctg	240
aagtgcagagg accaagtata gtaaaatgct gacatctaaa actaaataaa tagaaaacac	300
caggccagaa ctatagtcac actcacacaa agggagaaat ttaaactcga accaagcaaa	360
aggcttcacg gaaatagcat ggaaaaacaa tgcttccagt ggccacttcc taaggaggaa	420
caaccccgtc tgatctcaga attggcacca cgtgagcttg ctaagtgata atatctgttt	480
ctactacgga tttaggcaac aggacctgta cattgtcaca ttgcat	526

<210> 274
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 274	
tgtgtccact gggttcagtc tgagttctct gcactttgag gatgcagaca gtgaagttct	60

342-42PCT.txt

```

cccatgggta tagggggaga gatcatagga atgctatgga aagaggcctg aagtcagagc 120
cagctagtgg ttattattta ttaattgcct gtgaggtgcc aggcgcacat attagaccat 180
atgtgattgc agtgagccac cccgatcccc ttcaagctgc tgctgcagct gatggaagtc 240
ctattggcag acagccttct ctcatcagcc ccttcaggac ttgcctcagt tgcagagagc 300
tgccctcccc aagatcacac ccttccttgg ggactcaca ccaatggctg atccagaaga 360
atccataaag cccgtatcat ttcagcccaa tttaggacag ctttgttgag ccattagacc 420
tacatgcag 429

```

```

<210> 275
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (376)..(390)
<223> n is a, c, g, t or u

```

```

<400> 275
gaagctctac ttgcctgggtg gtaattccag gatgaccag gagaggctgg aaagagcgtt 60
caaacggcag ggcagccagc ccgcacctgt caggaaaaat cagttgctgc cgtctgacaa 120
gggtggatggg gagctgggtg ccctgcccgt cgaggatgtg gaggatgagt tgataagggg 180
agaggtcatc ctgtcgccag tcccatcagt gctcaagttg cagacagcat caaaaccaat 240
tgacctctca gtagcaaagg aaataaagac ccttctgttt gggtccagct tttgctgttt 300
caatgaagaa tggaaacttc agagtttttc ctttagtaac acagcctcat taaaatacgg 360
catagtgcag aacaannnnn nnnnnnnnnn agtcctggca gctgtccaag gctgtgtcct 420
acagaaactc ctgt 434

```

```

<210> 276
<211> 189
<212> DNA
<213> Homo sapiens

```

```

<400> 276
aaaatcactg ccaactgactt ttaccctctt caggaagagg ccaaggagga ggaacgcctc 60
atagctttga agaaaatcct cagctcgggg gtgttctatt tctcatggcc aaacgatggg 120
tctcgttttg acctgactgt ccgcacgcag aagcaggggg atgacagctc tgaatggggg 180
aactccttc 189

```

```

<210> 277
<211> 542
<212> DNA
<213> Homo sapiens

```

342-42PCT.txt

```
<400> 277
gaggagcagg caaggctacg tgggcagctg aaggagcaaa gcgtgcgctg ccggcgcctc 60
gctcacctgc tggcctcggc ccagaaggag cctgaggcag cagccccagc cccagggacc 120
gggggtgatt ctgtgtgtgg ggagaccac cgggccctgc agggggccat ggagaagctg 180
cagagccgct ttatggagct catgcaggag aaggcagacc tgaaggagag gccagggagg 240
gttctccccg tgacaacccc actgcacagc agatcatgca gctgcttcgt gagatgcaga 300
acccccggga gcgcccaggc ttgggcagca acccctgcat tccttttttt taccgggctg 360
acgagaatga tgagggtgaag atcactgtca tctaaaagcc ggctactgtc agcaaagcct 420
gaagaagtgg ggctggatac cctgccccca ccatatccct accatccctt ctcagtcaac 480
cctttaccct tacagtagca agcatagacc cctgtctaac gggggtagac aggtgcagat 540
ga 542
```

```
<210> 278
<211> 475
<212> DNA
<213> Homo sapiens
```

```
<400> 278
gacagtctac cgtcacgaga agcgggtgaa actgcagatc tgggacacag ctgggcagga 60
gcgggtaccgg accatcacaa cagcctatta ccgtggggcc atgggcttca ttctgatgta 120
tgacatcacc aatgaagagt ccttcaatgc tgtccaagac tgggctactc agatcaagac 180
ctactcctgg gacaatgcac aagttattct ggtggggaac aagtgtgaca tggaggaaga 240
gagggttggt ccactgaga agggccagct ccttgacagag cagcttgggt ttgatttctt 300
tgaagccagt gcaaaggaga acatcagtgat aaggcaggcc tttgagcgcc tgggtggatgc 360
catttgtagc aagatgtctg attcgctgga cacagaccgc tcgatgctgg gctcctccaa 420
gaacacgcgt ctctcggaca cccaccgct gctgcagcag aactgctcat gctag 475
```

```
<210> 279
<211> 294
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (225)..(228)
<223> n is a, c, g, t or u
```

```
<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, t or u
```

```
<400> 279
tttttagat ctaccctctt gttgcccagg gggagtccag tggcgtgatc ttggctcact 60
```


342-42PCT.txt

gcaaccgccc cctccccgggt tcaagcaatt ctctgcctc agtctcccga gtgtcttctg 120
tctttttgtaa aagttttttca tgcccaagtg agattaattg tttaaaaaaa aaaaaacaag 180
aagaaaacaa catagattta ccgcaagacc tattgatata ttatnnnnca nggtggtata 240
cccaggggtgg gtgtgacaca gaccaaaaga ggctgtgtgt tctgttggtg ataa 294

<210> 280
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (129)..(129)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (136)..(137)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (146)..(146)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g, t or u

<400> 280
ggaagcgtgt ctgctgggag tttgcgaccg atgactatga cattggcctt ggagtttatt 60
ttgactggac ccctgtaact agcactgaca taactgtgca ggtcagtgat tccagtgacg 120
atgaggatna agaagnnagg aagagnagga agagattgaa gaacccgttc cagctggaga 180
tgtggagaga ggctccagga gctccttgcg gggtcgctat ggggagggtca tgctgtgta 240
ccggcgggac agccaccgag acgtgcaggc tggcagccat gactaccctg gtgagggcat 300
ctacctgctc aagtctgaca acncctactc cctgctgcgc aacaagactc tctacttcca 360
catctactac accagctgaa ggactgctgt gacaggggca ggctgtattt gctggctgaa 420
g 421

<210> 281
<211> 544
<212> DNA
<213> Homo sapiens

<400> 281
atgagaacgg cgtcttcatg tgcgccgagg gcaccggcaa gttctgtccc ctgaggtcct 60
tcccagacac tgtctacaag aagctgggtcc agagagagaa gactttaaaag gtagaggag 120
tggaccgcac tccctacctg ggggatgtcg ctgttgtcgt gcaccctggg aaaaaagaga 180

342-42PCT.txt

tggaacccc actcgcagac actcctaccc gccccgtcac ccggcatggg ggcattgaggg	240
accttcacga atccagcttc agcctctctg gctctcagat cgatgaccat gttccaaagc	300
gagcttcagc tcggatcctc gctcctcccg gaggcaggtc gaggggcatt tggtaaaggc	360
attgccaagc cccccgagtg aggacgcacc gccgccacca gcccgcaact ctccagccga	420
agctgcaggg gcaggagagg ctgggctggg tggcacacca cccgaggggg gccccgggac	480
ccacggagcc ctccctatgt ctgcaaagtg attcactgtg cttcgagcca actctaacag	540
gcac	544

<210> 282
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 282	
ctgattctac ttctgcaggg ttccacagaa gtctccagtc ttcaaattct cagtgtatga	60
aagcacagat tcctgaaaga atggcctcaa atgaccagga gtaggagctc tctatatccc	120
tgctcctgaa aaacaagcta actggagtct ccatcacctg ccaccagcta tacacactac	180
caactaccca actgaactcc atgactgatt tgccagctaa tcatgcccct gaccagccc	240
acatggacat gggaaggaca tcagtgaact gtgaaaagag gcagagactc actcccgttt	300
gtattatgaa aacacacgcc aataggacat aaaaagaagc aagagtactg ggctttacca	360
tgagttcaaa tctcatttct ggcaattcct atgtctaaaa aaagcttcgt aatctctttt	420
gagccctcac	430

<210> 283
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 283	
ccagaggatg atagcacctg tcagtgccag gcgtgcgggc ctcaccaagc cgcgggtcca	60
gatcttggtt cctctaataga tggctgccct cagctgttcc aggagcggtc agtcatagt	120
gagaactcct caggetctac cagcgcttct gagctcctca aacccatgaa gaagaggaag	180
cgcagggaat accagagccc atcagaggag ggtcggag	219

<210> 284
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 284	
tttgctgag gttgactata catacaaata ttgagcattt cctcctggtc tccgtgataa	60
acaaagggtt tgatattgtt cggcgagatg gaaagaaaat atcaaggagt gagctgaagc	120

342-42PCT.txt

```

cactgccctt gagaaccctc tcgaggagtc tggcctcatg aagatgccag aataaacggc      180
agatatatcc tgaatgaatg tgagatTTTT accctgtgaa tttcctgtga gg                232

<210> 285
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, t or u

<400> 285
agtgtctcca gtggcccaaa aatgtctttt gaagtgtgtt ttgaaacagc cccaccaaac      60
atacacccca ccaggagtac tgatcctgcc tcccttcatg tctaggggaa gcattcgcct      120
ttgagcactt gtttgcaaat ctggggagtt tgagacctcc tagcatctct tcccttcttt      180
ccctgcagtc tattcactcc cgcagccnaa aaatctctgg cgttcagggt agcagtttct      240
gggttggtt                                249

<210> 286
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (138)..(140)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (142)..(143)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (371)..(371)
<223> n is a, c, g, t or u

<400> 286
gggaattacc ttttgtattg cttgaattta ctgctgtctg tatgaactct ttttcagata      60
aatTTTTaag aaatcagata agtgaagtga aagagagaga tcaaagtgtt gtggcagcac      120
aaaggagaga ctgactannn tnntgctggg gaatctgaaa gagtgttttg gtggaggtaa      180
catgagatca gggccttgaa gggtgagtca agtctgtcaa ggagacaaga gggagagaag      240
agcttgccag aggcccagag accagcgagg aggctgtggt gtcctggaat gagggcgaga      300
tacttggtgg gactgggtcaa cacggcaatg aagagggata tggccgagga aaatggagag      360
gggcactgga nctgtgccag caaggactgg gatgcgtgga cttgatcctg tagataacgg      420

```

gaggaagaaa ggcttggatg cagcgccatg tcatgagcac atctgatcat gacagctcac 480
ctatgggagg attctccctc aacatttttc 510

<210> 287
<211> 555
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (39)..(39)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (106)..(107)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (272)..(274)
<223> n is a, c, g, t or u

<400> 287
aggatgtgac agtgactcgg ggcgaccagg ctatgtttnc ttgcatcgta aacttccagc 60
tgccaaagga ggagatcacc tattcctgna agttcgcagg aggagnnctc cggactcagg 120
acttgctcta tttccgagat atgccgcggg ccgaaggata cctggcgcgg atccggccgg 180
ctcagctcac gcaccgcggg acgtttctct gcgtgatcaa gcaagaccag cgccccctgg 240
cccggctcta cttctttctt aacgtgacgg gnnngcccc gcgggcggag acagagtgc 300
aggcctcggt ccgggaagtg ctgcgctggg cgccgcggga tgccgagctg atcgagccct 360
ggaggcccag cctgggcgag ctgctggcca ggcccaggc tctgacgcc agcaatctgt 420
tcctgcttgc agtcctcggg gccctcgcag cagcgagtgc gacagtgttg gcgtggatgt 480
tctttcgatg gtactgcagt ggcaactaac aaaggatatct ttctccttc cctatcctat 540
ttccatcctg aaaat 555

<210> 288
<211> 381
<212> DNA
<213> Homo sapiens

<400> 288
atgtatccgc tgtcaactac gaatttgagg atgaatactt cagtaatacc agtgccttag 60
ccaaagattt cataagaaga cttctgggtca aggatccaaa gaagagaatg acaattcaag 120
atagtttgca gcatccctgg atcaagccta aagatacaca acaggcactt agtagaaaag 180

342-42PCT.txt

catcagcagt aaacatggag aaattcaaga agtttgcagc ccggaaaaaa tggaaacaat	240
ccgttcgctt gatatactg tgccaaagat tatccagggtc attcctgtcc agaagtaaca	300
tgagtgttgc cagaagcgat gatactctgg atgaggaaga ctcccttgtg atgaaagcca	360
tcatccatgc catcaacgat g	381

<210> 289
 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 289 cacgctcctg gaacgtcaga tcattattga ggcaaagat cgccatctag aatcagcagg	60
acagactgag atcttccgaa agcacccccg caaagcctcc atcctcaaca tgccactagt	120
gacaacactt ttctactcct gcttctatca ctacacagag gctgagggga cattcagcag	180
tcccgctcaac ctgaagaaga catttaagat cccagataaa cagtatgtgc tgacagccct	240
ggctgctcgt gccaaagctt gagcctggaa tgatgtagat gccctattca ccacaaagaa	300
ctggctgggc tataccaaga agagagcacc cattggcttc catcggggtg tcgaaatttt	360
gcacaagaac aatgcccttg tgcagatatt acaggagtat gtcaatctgg tggaagatgt	420
ggacacgaag ttgaacttag ccactaagtt caagtgccat gatgtcgtca ttgataccta	480
ccgggacc	488

<210> 290
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 290 tttcatgact tctccttcac ctaagcacct caaaacagat gatagcactt caggattgac	60
gcgaagcatc ttcaaattatt tggagagcta acaccatcaa aggtgccaaa atctacattg	120
agactgcttt gagaagtttc tagcactgaa agttggaatt gacactccag ccaatgatcc	180
ttccttcttt cataatcaat gcaataagat tgcagacaga aattccagtg atttctactg	240
cacagctctg gacatctctt ttccctagtat tattccctga attggccact gatttcaatt	300
ctgcag	306

<210> 291
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 291 ctccctgggtc cgcagtgtac tgcgagggag cacagatgtc catccccgc tgggggtggag	60
agcggcagca ggcctgatgg atgagggatc gtggcttccc ggcccagaga catgaggtgt	120

342-42PCT.txt

ccagggccag gccccccacc ctcagttggg gctgttccgg ggggtgactgt gagcgatccc	180
accccaaacc tgagatgggg tagcccgctc tgtgtcctcc acagggacaa gcagtgggag	240
gagtctgaat ggtcaccagg aagcccgggc tccatcttga cctccttttt cagggacagg	300
agcaacaggc ccctcttccc tgactctaag cccttccttg taaggtga	348

<210> 292
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (343)..(343)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (361)..(361)
 <223> n is a, c, g, t or u

<400> 292	
tctctgcttt ccctcttatg aaaatggcag atgccttttt gtgaaggctc caaagcccac	60
ttcatcctgg ctgcagcacc aaaaggacaa aggcccgctt ttgaagtgcc tgataaggca	120
ttcctttcac ccctccatga ggaagggtggc aaatcttgag actccctatt agagagcttc	180
gattttcctg aaattgtgtt aggaaaatag ggtgacttgg tttgatcttg gtttctatac	240
ctattatggc tgccctgaactc tgggtcatttg gcccctgcag gcctaagcca cttgggttttg	300
cttcacatat tggggtttat tagaacagta cgtaggggaag canatgccag aggcacccgt	360
nccttttccc tgccctctag gtgctcctgg gaaat	395

<210> 293
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 293	
accaagatct ctgcctggca caataacgtg gagaaaaccc tgccctccac caaggccacg	60
cgggtgggag tgctttctcaa ctgtgaccac ggctttgtca tcttcttcgc tgttgccgac	120
aaggccacc tgatgtataa gtgcaggggtg gactttactg aggcctttgta cccggctttc	180
tgggtatttt ctgctggtgc cacactctcc atctgctccc ccaagtaggc aggctgtagg	240
cacttgggct gactgcctgc agaagtccca agaccctagt gaaaatacag caggcagaac	300
tctccttggg taattcccc aagaggtccc caaggattgg gagcatggga ggggagctgg	360
cgggaggggtg ggaggtggga tttagccagg aaaggggtga gagtgattgt gttgtgggag	420
aggaggcggt tccacccctt ggtgcctatc agggcagggg gacctactcc ccattgttct	480
ggaaatctcc aggcctgctgg gcagctgggc agctgggcag agctctggga agtgaagtca	540

tgagtgcccg attcctc 557

<210> 294
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 294
 gggttcgggtg agggcactct atgactacgc tggccaggaa gctgatgagc tgagcttccg 60
 agcaggggag gagctgctga agatgagtga ggaggacgag cagggctggg gccaaaggcca 120
 gttgcagagt ggccgcattg gcctgtaccc tgccaactac gtggagtgtg tgggcgcctg 180
 agtgtcctga cagcccttct gcaacgttta cccaccctgg ttcagagccc agcttctcct 240
 ggagagccgg accctcaggg ccctgaaccg tcgctctctg gctgctcctc tgtcccttga 300
 gggaggaagt cctgggaccc agggagggga ggggcctttg tctaggggaag ggactggtag 360
 ggaagggacg agtctaggct gagggcaaga tgggaggtca gaggtgacag aagcgttcag 420
 ggggtgcctgg gcctccccag gagctgtgga ctacgttctc gacctctgct ttgggggttcc 480
 tgggggtgggc ttgggggtgag tgtagttctg gcctagcagc accctcttgt ggcttgttct 540
 agcgtgt 547

<210> 295
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 295
 tgtatgtgac caaaggtagg tcctgggatg acagcaatgc tgacactggc ctaaggagtt 60
 actcatccat ttaataagta ttccagcaga tacagatgtg aacagtcaag tctctgccat 120
 ccacaatgct tgtgttctaa tgcaaga 147

<210> 296
 <211> 83
 <212> DNA
 <213> Homo sapiens

<400> 296
 atgtgttcaa ccaagcggga aactctccgg gtagagtga atccgaagtt gctatgctac 60
 aagataacct gggccgtgcg ccg 83

<210> 297
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 297
 gtctttctga gagtttcatt gccattatca acaagagaag ttgaaattta caagtcagga 60
 ggttattttt ccagattgat aaccatagaa agtgaataaa cacttttaag gtcgcaaaca 120

342-42PCT.txt

tttgctaggt tgtccttctc aatgcatgtg caggctgcat cctgtccttg tttttaagcc	180
agggtttata aataagtaga tttataccaa tcttaataga attgtatatt ttatgcaaga	240
attaaatgct ttacaacatg aagtataact caaccattg taaactttgg tggcaatatg	300
gatttgaaac tcgacagttc tcttgatatt gcttcctagg tttctgcatg caagttatga	360
caggtaggac tgaaaaaaca ctgccttttg acttctagca tttagcaacc gagagtcgta	420
gagtcaataa agctgtaagt gtcttcactt aatctgtggt tctcctaaaa ctattatctg	480
aaacctacag catcccacca tgaaatattt ggtaaattta tgttgtgacg tgttgcagca	540
tgtaa	545

<210> 298
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 298 aatttgctctg tgaccagat gccctcttct ccatggcttt cccggataac cagcgtccgt	60
tcctgaaggc agagtccgag tgccacctca gcgaggagga caccctgccg ctgaccact	120
ttgaagacag ccccgcttac ctctggaca tggaccgctg cagcagcctc ccctatgccg	180
aaggctttgc ttactaagtt tctgagtggc ggagtggcca aaccctagag ctagcagttc	240
ccattcaggc aaacaagggc agtgggttttg tttgtgtttt tggttgttcc taaagcttgc	300
cctttgagta ttatctggag aaccctagct gtctctggat tggcaccctt aaagacagat	360
acattggctg gggagtggga acagggaggg gcagaaaacc accaaaaggc cagtgcctca	420
actcttgatt ctgatgaggt ttctgggaag agatcaaaat ggagtctcct taccatggac	480
aatac	485

<210> 299
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (40)..(40)
 <223> n is a, c, g, t or u


```

<220>
<221> misc_feature
<222> (312)..(312)
<223> n is a, c, g, t or u

<400> 299
acagcttagc gatggagaaa atggcatccc tgttgntntn tcaccagata aattgcctgg      60
atctctggga cacccccgtc ccaggagaa ggatgtttgg gaagagatgg atgccaacaa      120
aaacaagata aagcttgga tttgtaaggc tgctactgaa gaggagaaca gccatggcca      180
ggcaaatggt cttctcaatg ctccaagcct tgggtcacca attcgtgtcc gctcagagat      240
tactcagcca gacagagata ttccactggt gcgaaagtta cgttccattc acagctttga      300
gctggaaaaa cntctgacct tggagccaaa gccagacact gacaagttcc ttgagacctg      360
gtataaaata gtgtatTTTT ctttttaaag cttctaaggt accattatt      409

<210> 300
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (150)..(150)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (164)..(164)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (170)..(170)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (173)..(174)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (185)..(185)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (187)..(187)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g, t or u

<220>
<221> misc_feature

```

<222> (210)..(210)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (220)..(220)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (390)..(390)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (393)..(393)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (395)..(398)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (400)..(400)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (403)..(403)
 <223> n is a, c, g, t or u

<400> 300
 gagggccaag agctagggac agggggaaga gactggccca ggtggtaggg aggaaagaac 60
 tcccagagtt tccttttagcc aggaaacctg ctctactgac cccgtgactt ggacagtcag 120
 acatcacctt gagagtgaca agtgtaaaan tgactccctt cctnccccgn ccnncggaag 180
 tatantnaga tacttgaaag cagtcnnttn ctaaaatggn cttacctatg tggcctgaac 240
 gattaaaaga aagaactcag agttacaagg gaaaaagaaa aagagttaca agggaattgt 300
 agtctttttt tgaatagaat attagtactg tgggtattgca tttcatggga atggaaatgt 360
 attggttaaag ctacctgatg gaagctttcn ctngnnnnn cn aanatggagg gtgtattatg 420
 tgcagttatt 430

<210> 301
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (68)..(69)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature

<222> (72)..(72)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (74)..(76)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (78)..(82)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (129)..(129)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (134)..(134)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (168)..(168)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (216)..(216)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (228)..(228)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (254)..(254)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (276)..(276)
 <223> n is a, c, g, t or u

<400> 301
 atcgaagaac aaagagtgc ccaaaaaata ggtcattctt ttattttcat aaagtatcta 60
 aactgtanna anannnnnn nngtgtttca ttctaaattn gcagctgaaa taaatttatt 120
 ngcgatagna gaantatctt attattcatc ctcagaaata aaggattnga agggatagag 180

342-42PCT.txt

```

attatatgat aaatttatag aagactttca gaattntgaa tgcatttngt ttagtggtat 240
gaaatgacaa tagnaataaaa gtctcgactt caattnaaaa gttacacaaa caaacaatc 300
tacaggcatg tctttatata ccatcaggtc taagttttca aagaaaatgg tagatataac 360
tgcagataac tcattacagt cataatctct gcccatgtgt attgagaggg ggcagttgtg 420
cacgaaaaaa gaatttatgt ggccatttta ataaattcag tttaaaatag acttggtgtat 480
atgcatgaat catcagagat gaaactgggt tgagagactc atgtgaacct tacgaa 536

```

```

<210> 302
<211> 371
<212> DNA
<213> Homo sapiens

```

```

<400> 302
ctggtacgct gctgctgcag ttaccagaaa aactcataag caaatacaac tggatcaagc 60
aatggaaact tggactgaaa tttgatggga agaatgagga cctgggtgat aaaattaaag 120
agtcccttac tctgctgagg aagaagggtt ggaacctgta gtgtcctgtc tgataagggt 180
gaagctctcg ttcttgcttg cccagaaga ccagttttta gtcttctctc agtggatttt 240
caaatgctct tggctgattt ttaggcaaaa tggtttttaa tgaattcaaa ctcttccac 300
gagggtttta gtaaaatggg aagtaccaac attatatatt cttagagcag atgccatgta 360
ctagggtatc a 371

```

```

<210> 303
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, t or u

```

```

<400> 303
gaagctgtgt ggagtggaa atggacattg aggaagaagg gcaggtgtgg tctcaccag 60
aatggttcct gctgcttccg cggtgcccag gcttttctca cggcctctgc tgggttctcc 120
cctgggtgct gtggatgcat cctgcctgct ggaaattctg tgctctctgt ttccatccct 180
ttgtcgtggt aatgaccgta tacctctccc ctgtaccctc ctntgcntgc tctccgtgca 240
ggccccctct cctctggttg tcccatcagc atttccccac agctcgttgt tctctcttcc 300
tcttttctgg tgacctttct actgattgca ttgtacctct ttccctgata ttaaa 355

```

<210> 304
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 304
 gcctgtgtct tcgggctgaa tttgatctgg ccatcccagg gggctctctc cctgagtgcc 60
 cttgtgcccc tgaacatggt cactgaactg ctgatcgagt actatgaaaa gatcttcagc 120
 accccggagg cacctgggga gcacggcctg gcaccatggg aacaggggag cagggcagcc 180
 cctttgcagg aggctgtgcc acggacacaa gccacgggcc tcaccaagcc taccctacct 240
 ccgagtcccc tgatggcagc cagaagacgt ctctagtgtt gcgaacactc tgtatgtttc 300
 gagctacctc ccacacctgt ctgtgcactt gtatgttttg taaacttggc atctgtaaaa 360
 at 362

<210> 305
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 305
 cgaagagcaa gacccactct gttccagaag ccctataagc tggaggtgga caactcgatg 60
 taaatttcat gggaaaaccc ttgtacctga catgtgagcc actcagaact caccaaatg 120
 ttcgacacca taacaacagc tactcaaact gtaaaccagg ataagaagtt gatgacttca 180
 cactgtggac agttttttcca aagatgtcag aacaagactc cccatcatga taaggctccc 240
 acccctctta actgtccttg ctcatgcctg cctctttcac ttggcaggat aatgcagtca 300
 ttagaatttc acatgtagta gcttctgagg gtaacaacag agtgtcagat atgtcatctc 360
 aacctcaaac ttttacgtaa catctcaggg gaaatgtggc tctctccatc ttgcatacag 420
 ggctcccaat agaaatgaac acagagatat tgcctgtgtg tttgcagaga agatgggttc 480
 tataaagagt aggaaagctg aaattatagt agagtctcct ttaaattgcac att 533

<210> 306
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (191)..(191)
 <223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (205)..(205)
 <223> n is a, c, g, t or u

<400> 306
 ggaaccctcc tcttggcaag ggctttccga agttaacctg aaaaactggt tcaggccatg 60
 acagcaaagg gttggatagc ctcattatcc ctctccctt cagaactctg gaacagccag 120
 cgttaacatc nacacaggcc ttcagtctga tgagaaacat ttaccatcta ttgtctcgga 180
 agcctgctac ntggaggctt catcntgatg ataaagcctt ggtctccaca accccgtata 240
 acccagacat tcctttctat tgataactct tgcaagcgat tgccaaccag aagatgttta 300
 aatccaccta taacctggaa gccccagtt ccagctgccc acctttctgg actaaaccaa 360
 tgtatatctt caatatatctt gattgatgtc tcatgtctcc ctaaaatggg taccatcaag 420
 ctgtgcactg acca 434

<210> 307
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 307
 cctccgcaca ctggatgaga atccatcttc cattcgagct gggaatagac tttgtgaaag 60
 atattatgta atggagtctc ggggaacctg agacctctcc agcgaagctg aagtgaatta 120
 attaagtgtt ttaaacgggc ttggtgctgt gttacgg 157

<210> 308
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (38)..(40)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (43)..(47)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (52)..(53)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (58)..(58)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (60)..(60)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (62)..(64)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (67)..(68)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (71)..(71)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (73)..(73)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (75)..(75)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (79)..(79)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (82)..(82)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (84)..(86)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (89)..(91)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (93)..(93)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (289)..(289)

<223> n is a, c, g, t or u

<400> 308

agggtgatgca ctatgcccag tacgtcctcc tggcnctnnn ctnnnnngcg tnnctgntn

60

342-42PCT.txt

```

cnnntcnntg ncntntgcna antnnngann nanaaccgtg taaaaccatt tttatgtggc 120
ttcaacgtca actataaaatt agcttgggta tcttctagga gaaatgctat ttattttgga 180
gtagtagtaa aaagggctca aaggataagg aggccattca ggcctattct gaatccctga 240
tgacatcagc tcccaagggc tctgtgctgc aggaagcaaa actgtaggng ggtaccaggt 300
aatgccgtgc gcctccccgc cccctcccat atcaagtaga atgctggcgg cttacagact 360
gaagatg 367

```

```

<210> 309
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 309
acccaccac gtaccagatg gatgtgaacc ccgagggcaa atacagcttt ggtgccacct 60
gcgtgaagaa gtgtccccgt aattatgtgg tgacagatca cggctcgtgc gtccgagcct 120
gtggggccga cagctatgag atggaggaag acggcgtccg caagtgtgaa aagtgcgaag 180
ggccttgccg caaagtgtgt aacggaatag gtattggtga atttaaagac tcactctcca 240
taaatgctac gaatattaaa cacttcaaaa actgcacctc catcagtggc gatctccaca 300
tcctgccggg gccatttagg ggtgactcct tcacacatac tccccctctg gatccacagg 360
aactggatat tctgaaaacc gtaaaggaaa tcacaggttt gagctgaatt atcacatgaa 420
tataaatggg aaatcagtgt tttagagaga gaacttttcg acatatttcc tgttcccttg 480
gaat 484

```

```

<210> 310
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<400> 310
ccatggggcc atctggggcca ttcagagact ggagtgagat ttgggtgtgg agggggaggc 60
gccaagggtg aggagcttcc cactccagga ctgttgatga aaggacaga ttgaggagga 120
agtgggctct gaggctgcag ggctggaagt ccttgcccac tcccactct cctgccccaa 180
tctatctagt acttcccagg caaataggcc cctttgaggc tcctgagtgc cctcagatgg 240
tcaaaaccca gttttccctc tgggagccta aaccaggctg catcggaggc caggaccggg 300
atcattcact gtgataccct gccctccaga gggcgctc agagacacgg gcaagcatgc 360
ctcttccctt ccctggagag aaagtgtgtg atttctctcc cacctcctc cccccaccag 420
acctttgctg ggcctaaagg tcttgggcat ggggacgcc tcagtctagg gatctggcca 480
cagactccct cctgtgaacc aacacagaca ccaagcaga gcaatc 526

```


<210> 311
 <211> 319
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (264)..(264)
 <223> n is a, c, g, t or u

<400> 311
 taaattgcct ggatctctgg gacacccccg tccccaggag aaggatgttt gggaagagat 60
 ggatgccaac aaaaacaaga taaagcttgg aatttgtaag gctgctactg aagaggagaa 120
 cagccatggc caggcaaatg gtcttctcaa tgctccaagc cttgggtcac caattcgtgt 180
 ccgctcagag attactcagc cagacagaga tattccactg gtgcgaaagt tacgttccat 240
 tcacagcttt gagctggaaa aacntctgac cctggagcca aagccagaca ctgacaagtt 300
 ccttgagacc tgggtataaa 319

<210> 312
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (85)..(87)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (89)..(90)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (94)..(95)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (97)..(97)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (186)..(186)
 <223> n is a, c, g, t or u

<400> 312
 gcgcttgccg agtagctgaa cgcgggcggt tctttcctcc ctttttttcg aattggtttt 60

342-42PCT.txt

```

gggggtagat tcgagttaca aaatnnncnn cngnngngtg ttcggcgcggtt tccccccagc      120
tgtctctggc tgaaccggcg ctctcgccctc cctgccgaac acagcgtgag gagccccccc      180
aggganatgg tgtttgagtc tctgggcttg ccgagcacta agtcctctga gttc              234

```

```

<210> 313
<211> 125
<212> DNA
<213> Homo sapiens

```

```

<400> 313
gtactgcaaa aatcacccctc ggcaagacga atgtctgacg tgccggaagg agtcatacgg      60
gtccatgctc cacttctctc caagggtgtcc atggccattc aactcaacaa tcaaaccaaa      120
gccaa                                             125

```

```

<210> 314
<211> 446
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (53)..(53)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (93)..(93)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (130)..(130)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (205)..(205)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (211)..(211)
<223> n is a, c, g, t or u

```

```

<400> 314
aagtcattcg tttaagcgtg gattattttg ccgaatgaat aatgatgatg gcngctttca      60
tctcttatga agttttcctg gccaaagagcc agnagttgga agtttggtatc attctttttt      120
cttttttaan catttcttct cttctttctc ttttttatca ctaaataaat gacatgtgga      180
gaaactattc agctttttaa gtatnctcca nttacttgct tcaactacca ctatttattg      240
tgtttatcaa aatcataaaa agtcattttt tggcattttac cttcgtgggt gagactgctg      300
tctgtatgct tgggaatgga agtcctcttc agggattcag caagggctgt acttttgctt      360

```

342-42PCT.txt

aataactagtg gttccttatt ctaagtgatg acatcatcca cctttcctag aaatgggtct	420
ttgtgcctag tatgatatct ttccaa	446

<210> 315
 <211> 473
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (207)..(207)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (264)..(264)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (375)..(375)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (395)..(395)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (405)..(405)
 <223> n is a, c, g, t or u

<400> 315 tgtttcaggc ccatccacag ttgaagcagt gtgtgctgca ggcaattgaa cgggctgtcc	60
aggagctggg ccatcctgtg gtggatcgat caattaagat tgccatgact acttgtgagc	120
aaatagtcag gaaggatttt gccctggatt cggaggaatc tcgaatgcga atagcagctc	180
atcacatgat gcgtaacttg acagctngga atggctatga ttacatgcag ggaacctttg	240
ctcatgagca tatctaccaa cttnaaaaaa cagttttgcc tcagcccttc gtgtaagttg	300
gctatttcct tggatatagg acaaaacgta ttactgcttg tctgtaataa tttttttctt	360
tgtctatata tggcnctggg cgttaccact tattnttaat aatcnccata tttgtttgat	420
gtcttccatc atttttagatt gtaattctgt gaggcaaagc atcatgtctg tgt	473

<210> 316
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (351)..(352)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (395)..(395)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (496)..(496)
 <223> n is a, c, g, t or u

<400> 316
 aggacaccag gctggtggcc acagtgctgc tgtccgtggt cgtgctgctc cacgccctcc 60
 tgnccatggg ctgtaagttg tactttcttc agtcgctgcc tccggagaac gtggctcctc 120
 cccccaaat cacatctctg ccctcaaaca tcgcgctgct ccctaccttg ccgcagtccc 180
 tggccccctc ctaggaaggc ccgggtccca caggcaacac ctaagtggac caaccctctc 240
 gcctgtcctg cccccagac gatgactgaa ggctcctttg acaccttgag atgattctgc 300
 tactttccag acttttctta caaagcaaac acttttattt tctatgcaaa nntgattcag 360
 agaatttata taaaggcggg cgaggggag ccgancagg agctttggga cagggctggg 420
 gccccatat ccccccggg ccacctgctt tccctcctat ggctccccctg gaacaggagg 480
 gagagccaag ggggcngccc agcctggaca gcgcccgtc ctgcctgggt gcacacacgg 540
 cgggcctgag ctccagcatc tgagtgtggg ggtatg 576

<210> 317
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 317
 ccaggagcag ctgcgtgacg tcatgttcta cctggagaca cagcagaaga tcaaccatct 60
 gcctgccgag acccggcaga aatccaggag ggacagatca acatcgccat ggctcggcc 120
 tcgagccctg cctcttcggg gggcagtggg aagttgccct ccaggaaggg ccgcagcaag 180
 aggggcaagt gaccttcaga gcaacagaca tccctgagac tgttctccct gacactgtga 240
 gagtgtgctg ggaccttcag ctaaa 265

<210> 318
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (108)..(108)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (115)..(115)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (203)..(203)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (241)..(241)

<223> n is a, c, g, t or u

<400> 318

atacgtgggt agtggtgcat ttcaaagtag gctcttctgg ttgaaatgat atatttataa	60
gaccagaata tcacaaatgg gtgatgtata atgtctcttt agtttttngg tattnggcct	120
cttttaaagc ctgtcggatg tatgggagaa aacaatgaac gtgctttgat ttcctatcag	180
tcactcttaa gaacatacat atngtttaag taactcggtc ttttttatct gattcttgag	240
ncactatggg tagcaagtaa ccacttacia atttaaagt aatatacact ccttttctgt	300
gtgtcaagtc cttattttta ggtgcatatt gacatttaaa tgttaattat tgtttggcat	360
ataatatcaa aaatctatta tttattttat gctgttacag taaaagatg tgatttatga	420
catactgaat caacttgcct tccaatttag tgtgtaatat ggtaagcatt tatactttta	480
gatatgtctt atttttattt ggatgcctgt ctacc	515

<210> 319

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (136)..(136)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (141)..(141)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (147)..(147)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (159)..(159)

<223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (161)..(161)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (167)..(167)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (181)..(181)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (188)..(188)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (191)..(191)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (195)..(195)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (220)..(220)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (260)..(260)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (509)..(509)
 <223> n is a, c, g, t or u

<400> 319
 gagttaatgc agcactcgtc attcagaaat attggcgaag agtcttagca cagagaaaat 60
 tattaatggt aaaaaaggaa aagctggaaa aagttcaaaa taaagcagca tcacttattc 120
 agggatattg gagaanatata nccactngac aaagatttnc ngaaatngaa anattattca 180
 ntcattccngc naatntagga taagaatgat aattgctgtn acattctata aacgatattc 240
 ttgggctaca gttacaattn cagaggcatt ggcgtgctta tttaagaaga aaacaagatc 300
 aacaaagata tgaaatgcta aaatcatcaa ctcttataat ccaatctatg ttcagaaaat 360
 ggaagcaacg taaaatgcaa tcacaagtaa aagctacagt aatattgcaa agagctttta 420

342-42PCT.txt

gagaatggca ttttaagaaaa caagctaaag aagaaaaattc tgctattatc atacaatcat	480
ggtatagaat gcataaagaa ttacggaant atatttatat tagatcttgt gttgttatca	540
t	541

<210> 320
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (144)..(145)
 <223> n is a, c, g, t or u

<400> 320	
cttcggattt ttattgactc aaaatagtgc cattccccctt aatgaaatag attttgagtc	60
tttttttcat tgtaaccccc aaatgagaat catctacctg attcttgtac caaaaaaaaa	120
tttttttcag tctttttttt ttttnagaga gggctctcttg tcaacgcaag actgggagtg	180
gcagtggcac gatcttagct cactacaact tctggcctcc caggctcaag caattctcct	240
gcctcagcct cctgagtagc tggggattac aggcattgcac caccacgccc agctaatttt	300
ggtattttta gtagagacag ggtttcacca ttgtttggcc aggctgggcc cgaactcctg	360
acctcaggtg atccaccac ctcggcctcc caaagtgtctg ggattatagg tgcgagccat	420
tgcgcccagc ctcagttatt ttatttaaca gtgtaagtac ttagaaagta agaaaatggc	480
gtgattagtt ttttg	495

<210> 321
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 321	
ggctgaggag gctggtctga acatcactca catttgcctc cctccagata gcagtgaagc	60
cgagattata gatgaaatct taaagatcaa tgaagatacc agagtacatg gccttgccct	120
tcagatctct gagaacttgt ttagcaacaa agtcctcaat gccttgaaac cagaaaaaga	180
tgtggatgga gtaacagaca taaacctggg gaagctggtg cgaggggatg cccatgaatg	240
ttttgtttca cctgttgcca aagctgtaat tgaacttctt gaaaaatcag taggtgtcaa	300
cctagatgga aagaagattt tggtagtggg ggcccatggg tctttggaag ctgctctaca	360
atgcctgttc cagagaaaaag ggtccatgac aatgagcatc cagtggaaaa cacgccagct	420
tcaaagcaa	429

<210> 322
 <211> 467
 <212> DNA

<213> Homo sapiens

<400> 322

tctgaggggtg ccttgatgct ggctcatcac acattgagta tcttgggcat tatcatggcc	60
cttgtgcttg gggagtctgg cacagaggtc aatgcagtcc tctttggaag tgagcttacc	120
aaccccttgc tacagatgcg ctggtttctc cgggaaacag ggactatca cagtttctact	180
ggagatgtag tggacttcct ctttgtggct ctgttcacag gagtgaggat tgggtgtggga	240
gcttgccctcc ttttctgtga aatgggtctcc cccacgccta agtgggttgt gaaggctggg	300
ggagtagcga tgtatgctgt gtcttgggtgt ttcatgttta gcatctggcg ctttgcattg	360
aggaagagca tcaagaagta ccatgcttgg agaagcaggc ggagtgagga acggcagctg	420
aaacacaacg gacatctcaa aatacactag ccaaggcttg ctccaga	467

<210> 323

<211> 504

<212> DNA

<213> Homo sapiens

<400> 323

ttggcacttc agaagtctcc ccaatcttga caaagccctg gagaaagggc cgggcctccc	60
gttgataaga atatcactgc agataaatgg aggtttcaaa ttgaaagaaa ggaggagggc	120
ctcctgttga taagattatt gtcactgcag gtaaatggag gcttcaaata gaaatacatt	180
tcagttacag aaaaaaaaaat tatctttgtt acacatttga gtttgcaggc ctaagggttac	240
tcccgttaca ctatcatctg taaccataac gcactcaaca ttttaagcta actataagga	300
ttgttgcttc actcaaagat cctgagggtt tattcactaa catttttatt tggtgactat	360
agttgacaag aacaaagctg tggggaacca acaaacactg caatgcctgg cattgtcacc	420
tcactagatt gtgagttcct ctgggacagg gtccgtacat tttcttagaa tccctcactt	480
agccattagc ctgcacagtg cttg	504

<210> 324

<211> 163

<212> DNA

<213> Homo sapiens

<400> 324

catggaggag tgcatttcct tggctattcc agaagtccta cctcccttct gagattttat	60
aatgggtatct cttatggtta tcccaaatat acttggcaag tcgtcttata aaccaccaat	120
aatagcctct taaaaattca aaaattactc ctcttggcta aca	163

<210> 325

<211> 441

<212> DNA

<213> Homo sapiens

<400> 325

342-42PCT.txt

```

cctccgcgga aggcgtggca gggaggcagt cgccctgcgg tgcaagctgc tgctccagag      60
cataccgtgg cccaggtggg atccccaagg cctcgtgccg tggctggggg cctgggaggt      120
ggtcgccttg cagtgcgaagc tgctgctcca gagcgtaccg tggcccagac tgatcctcga      180
ggcctcctgc cgtggctggg gtcattggctg gctgcgcatg tccagaagca tttccttcct      240
gcgaccatcc cggcgccctt agggggagaa gccaggacag cagcttccgc tgtctccaca      300
gcagacacgg gacggattcc acagacggga gcctcattcg taccatgcca aacgcattca      360
ctcggggcag tattaaccgt tctagaaagc cactgtttta tagcaaaaaca ggaaaggaaa      420
agctaccagt tttttattca g                                          441

```

```

<210> 326
<211> 457
<212> DNA
<213> Homo sapiens

```

```

<400> 326
tttcccctag ttgacctgtc tataagagaa ttatatatct ctaactatat aaccctagga      60
atttagacaa cctgaaattt attcacatat atcaaagtga gaaaatgcct caattcacat      120
agattttctt tcttttagtat aattgacctt ctttggtagt ggaatagtga atacttacta      180
taatttgact tgaatatgta gctcatcctt tacaccaact cctaatttta aataatttct      240
actctgtctt aaatgagaag tacttggttt tttttttctt aaatatgtat atgacattta      300
aatgtaactt attatttttt ttgagaccga gtcttgctct gttaccaggg ctggagtgca      360
gtgggtgatc ttggctcact gcaagctctg cctcctcccg gttcgcacca ttctcctgcc      420
tcagcctccc aattagcttg gcctacagtc atctgcc                               457

```

```

<210> 327
<211> 438
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (65)..(65)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (218)..(218)

```

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (229)..(229)

<223> n is a, c, g, t or u

<400> 327

```

ttgtccttta tgtatcttct ttccatagtg cttactggag ccttccaaaa taatgtctcc      60
tcaangtgac agcccctcag gaatttgaag gcaatngtca caccctcacc cnctttcctg      120
agttttttct ggtttattaa cgtcagtctt tacagtcagt gctcattgac ggtgggtttc      180
tctggttggt tcctgaacac gtagtgctct taaagcantg ccctgaggng aatacaattc      240
tccaggggca ttctgattgg cagggtgaagc acagtgccat gttcccagca ctgatttggg      300
aagtggcttg tcacatccca cagtgaactc agtcaactgg aatgcctaac tctctttcat      360
aagacctcct gctacattat gtttctccca gactgtactc aggtccaaga acagaattta      420
ctagtctatc cttctcaa                                     438

```

<210> 328

<211> 535

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (40)..(40)

<223> n is a, c, g, t or u

<400> 328

```

cccttcttgc tgccacagga tgaataaagt gttgagattn gtctatggag aaagctgtgt      60
gtctgttttt atctcccctc tcaggaccag tcagccactg gtcaatcagg ctgatcatgg      120
aacattagga attctccaat taagggagaa aaagtccagg gacttagtta tatcttcaga      180
ccagtgcagc tgggacacac aaagtctctc tgtctcacca tctgatatgg tttggatgct      240
cgtccccctc aaatctcatg ttgaaatgta attcccagtg ttggaagtgg agcctgggtg      300
gaagtatttg gatcatgaga gaggatcctt catgaatggc tcagcaccat ctccttggtg      360
atgagtgagt tctcactcaa ttcacataga tatggttggt taaaagagtc tgagacctct      420
cccctctttc tcgcatgtg atatgcctgc tcccccttca ccttccgcct ttactgtaag      480
cttcctgagg ccctcaccag aagctgagca aatgttggtg ccatgccagt acagc          535

```

<210> 329

<211> 432

<212> DNA

<213> Homo sapiens

<400> 329

```

gccacagact gaactcgagc ggagtgcagc aggaaggaac aaagacaggc aaacggcaac      60

```

342-42PCT.txt

gtagcctggg ctcactgtgc tggggcatgg cgggatcctc cacagagagg aggggaccaa	120
ttctggacag acagatgttg ggaggatata gaggagatgc cacttctcac tcaccactac	180
cagccagcct ccagaaggcc ccagagagac cctgcaagac cacggaggga gccgacactt	240
gaatgtagta ataggcaggg ggccctgcc ccccatccag ccagaccca gctgaaccat	300
gcgtcagggg cctagaggtg gagttcttag ctatccttgg ctttctgtgc cagcctggct	360
ctgccccctcc cccatgggct gtgtcctaag gcccatattga gaagctgagg ctagtccaa	420
aaacctctcc tg	432

<210> 330
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 330	
agcaaatcta gctttcagta ttcctaattt ttacctaagc tcattgctcc aggctttgat	60
tacctaaaat aagcttggat aaaattgaac caacttcaag aatgcagcac ttcttaatct	120
ttagctcttt cttgggagaa gctagacttt attcattata ttgctatgac aacttcactc	180
tttcataata tataggataa attgtttaca tgattggacc ctcagattct gtta	234

<210> 331
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 331	
acttaggagt ggtgcttttt ctcagaaaac aggccacggt gtttcataca gaatgtcttc	60
atatcatctg aaatggatg gctgaagttc atttgtttac agggtcggga atgtcttcag	120
ttcttgagag tcaacagtaa tgattggttg taagccaagg gacattttaa gctagtgaag	180
agttttttct ggaattgatt tttcccaaaa gaatatatta attgaggta agaagtcagt	240
gggaaacaca cagaaatttg ttttaaaatc tttcaggagc tttactgaaa gacttggtta	300
tcaagtcttt tggggag	317

<210> 332
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 332	
gacttacttt aacaaccagc caatccctac ctaagcctag tagccatggt ttggctaaga	60
ccgcagcgac tgtatttagt aaatcctttg aacaagtcag tgggtgcaca gtcccacata	120
acccgtcatc tgctgttggt tgtggggctg ggacagatgc caatagggtt tccgcttgta	180
gtctccaaga agaaaagctt atttacgttt cagaaagaac tgaacttcca atgaagcatc	240
aatcagggtca gcagagacct cctagtatta gcattactct gtccacagat taattagtaa	300

342-42PCT.txt

catatTTTTtC tcccataaacc tagtgaacct ggaaatacaa ctttgcttct ttatgaaagt 360
accctggggtc tttcatccgt attcctgaca ggagccctga tgtcttaaatt tctga 415

<210> 333
<211> 489
<212> DNA
<213> Homo sapiens

<400> 333
gacgggtcca ttaacaaagc gggctttgcc gtcaactttt tcaaagaggt ggacgagtgc 60
tctcggccca accgcggggg ctgtgagcag cggtgccctca acaccctggg cagctacaag 120
tgcagctgtg accccgggta cgagctggcc ccagacaagc gccgctgtga ggctgcttgt 180
ggcggattcc tcaccaagct caacggctcc atcaccagcc cgggctggcc caaggagtac 240
cccccaaca agaactgcat ctggcagctg gtggcccca cccagtaccg catctccctg 300
cagtttgact tctttgagac agagggcaat gatgtgtgca agtacgactt cgtggagggtg 360
cgcagtggac tcacagctga ctccaagctg catggcaagt tctgtggttc tgagaagccc 420
gaggtcatca cctcccagta caacaacatg cgcgtggagt tcaagtccga caacaccgtg 480
tccaaaaag 489

<210> 334
<211> 239
<212> DNA
<213> Homo sapiens

<400> 334
cacagataga acctgcacat tgcccattaa tgcacacttg tgtatgccta ttacagtctg 60
tgaagtttgg tttaggggtca gatgctgggc agagagctgt gaagccatta catattcctt 120
cccttgacaca gtctgaatca tcccagacct tctcagactt tgacttgaat gcacactgtg 180
ctgtacaaca aggaccttga cttggactgc actgtttccc aggtttcagt ttgcatttt 239

<210> 335
<211> 432
<212> DNA
<213> Homo sapiens

<400> 335
gccctgactg actgtattct ctggccacat tcaagtcccc cattggtggg ggcagagaag 60
taggaccagg ccatccttgg ctacagagct cgaagacccc aagacagccc tctgctctca 120
gcggcgccac agagagcctg ggctcagcct tctgcatcag gacatggcct cgtccactga 180
gggcacgatt taaacatttg acatcagaag ctttatttgt aaacctcaca cagataagga 240
ccaagggtcg gcggtgtggc cagaggacag ggggaagctga aggccccgtg cttgagctcg 300
gcagtcctgc tccttgagc gaagccacca tgggtgaccg tccagcctca cccggtggcc 360

tgcacagtga gggaagggct tcagggccat ctgctcccag ggcaggggac aggccaccaa 420
ggaccttttg ca 432

<210> 336
<211> 380
<212> DNA
<213> Homo sapiens

<400> 336
aatgttgaca tatttcctct atctcataga tggtaaaagt gttgctttta aactggcaaa 60
tgcactcttc agaaatcctt ttctatctga tccacatgga gaggttaaag gttcaatttc 120
atgacctcta tgcaggcagc gctctcattg gatgtaagaa tattacctgc aaggatagaa 180
tgcagttgtg caacagagac acattcttat ttcttttttt tcacaatttt gttttgtttt 240
taatgaccct tttattgaat attggactga aatataaatt ttaaaaaaca cggttgaaaag 300
gatgtacaac agaaggctat gtatgtatat acagtatgtc aaaagccttt tatttttata 360
cttcaaatgc tctaaattaa 380

<210> 337
<211> 544
<212> DNA
<213> Homo sapiens

<400> 337
gagtctctgc ttgataagtg cctctatacc aaccgctctc ctcatcctga catcttgata 60
cggacttctg gagaagtgcg gctgagtgac ttcttgctat ggcagacctc tcactcctgc 120
ctggtgttcc aaccggttct gtggccagag tatacatttt ggaacctctt cgaggccatc 180
ctgcagttcc agatgaacca tagcgtgctt cagaaggccc gagacatgta tgcagaggag 240
cggaagagggc agcagctgga gaggggaccag gctacagtga cagagcagct gctgagagag 300
gggctccaag ccagtgggga cgcccagctc cgaaggacac gcttgacaaa actctcggcc 360
agacgggaag agcgagtcca aggcttcctg caggccttgg aactcaagcg agctgactgg 420
ctggcccgtc tgggcactgc atcagcctga atgaggctgg ccacctgcca ctttgccctg 480
ccctctgcct ccagggtcc actccccttc cttttcttgg tgaaaggcac ctcccttcct 540
gata 544

<210> 338
<211> 530
<212> DNA
<213> Homo sapiens

<400> 338
tcaaagaacg cgtactgcag accccaaatg accttctggc tgctggcttt gaggagcaca 60
agttcagaaa cttcttcaat gctttttaca gtgtgggtgga actggtagag aaggacggct 120
cagtgtccag cctgctgaag gtgttcaacg accagagtgc ctcggaccac atcgtgcagt 180

342-42PCT.txt

tectgcgcct gctcacgtcg gccttcatca ggaaccgagc agacttcttc cggcacttca	240
ttgatgagga gatggacatc aaagacttct gcactcacga agtagagccc atggccacgg	300
agtgtgacca catccagatc acggcgttgt cgcaggccct gagcattgcc ctgcaagtgg	360
agtacgtgga cgagatggat accgccctga accaccacgt gttccctgag gccgccaccc	420
cttcgcgttta cctgctctat aaaacatccc actacaacat cctttatgca gccgataaac	480
attgattaat tttaggccat gcagtggaac ctgtcaccta atgggactgc	530

<210> 339
 <211> 75
 <212> DNA
 <213> Homo sapiens

<400> 339	
agtcatgcga ccaggtgagg gtccacgtcc ccaagcttcc actccctctg gtgtttccca	60
tttaagtata ctggt	75

<210> 340
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 340	
gatgtcacg tcaacttggtg taggtttcag gatcgctctc ttgaggaagg acttcaggac	60
caactggggc ctgcataaga aaacttatct cattattaga gtactcacag cttgtatctc	120
ccagctacat cctagaaccc cattgtcctt tattccacca aaccagctcc aggtgaccag	180
actctactca gaaagcaaat tcgtcatcaa agaacagaga ctggccacca caaggacatg	240
caggagaact gtcgggacca ggaagactca ttccaaaaag cccaggccgg gcacagtcgt	300
caagcctgta atcccaacac tttgggagac cgagggtggg gtatcgattg agcctcggag	360
gtcgagatca gcctgg	376

<210> 341
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 341	
ccccgcctgt ggcattttct atgggctcag gttacacctt cccagctggg gtttctgtcc	60
caggaacctt tcttcagcct acagctcact ctccagcagg aaaccagggtg caagctggga	120
aacagtccca cattccttac agccagcaac ggccctctgg accagggcca atgaaccagg	180
gacctcaaca atcacagcca ccttcccagc aacccttac atctttacca gctcagccaa	240
cagcacagtc tacaagccag ctgcaggttc aagctctaac tcagcaacaa caatccccta	300
caaaagctgt gccggctttg gggaaaagcc cgcctcacca ctctggattc cagcagtatc	360

342-42PCT.txt

aacaggcaga tgccctccaaa cagctgtgga atccccctca ggttcaaggc ccattaggga	420
aaattatgcc tgtgaaacag ccctactacc ttcagaccca agaccccata aaactgtttg	480
agccgtcatt gcaacctcc	499

<210> 342
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n is a, c, g, t or u

<400> 342	
cacccgagac tgacacactg aactccactt cctcctctta aatttatttc tacttaatag	60
ccactcgtct ctttntttcc ccactctcatt gctccaagaa tttttttctt cttactcgcc	120
aaagtcaggg ttccctctgc ccgccccgta ttaatatatttc cacttttgga actactggcc	180
ttt	183

<210> 343
 <211> 558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (72)..(72)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (239)..(242)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (400)..(400)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (405)..(409)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (411)..(416)
 <223> n is a, c, g, t or u

<400> 343	
tgggccttcc cttaaaccatc agaacaatga gatttgtccc tatttttacag ggggttagaat	60
agactatttaa gngacaactg agaaaggaca gagaagtgac agccagaggt tgagaggggc	120

342-42PCT.txt

cataaaaaaca tacaatcaga catatatctg ctaccacttt gtagcaagat gggttcctatc	180
ataactctgg gtcaaaaaga tagtaatttg gtttataatg ttgaaagaaa gcagaaagnn	240
nnagatgggg tctcactgtc gttctggagt gtagtggttc aatcatctct cactgcagcc	300
ttgaaccctt aggcctcaaag gatcctccca cctcagcctc ctgaatagct gggactagag	360
gcatgagcca ctatgtcttg ctgattaaaa attgtttttn caaannnnna nnnnnnactt	420
tactgcctaa gctgggtcttg aaatcctggc ttcaagcaat cctttcactt tggcctccca	480
aaatgctggg attacaggca tgagtcaata tgcccagtct cttttctttc ttagttactc	540
tagaaaatgg cttgttga	558

<210> 344
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 344 aataatgttc tgtcacgtga aatattttaag tatatagtat atttatactc tagaacatgc	60
acatttatat atatatgtat atgtatatat atatagtaac tactttttat actccataca	120
taacttgata tagaaagctg tttattttatt cactgtaagt ttattttttc tacacagtaa	180
aaacttgtag tatgttaata acttgctcta tgtcaatttg tatatcatga aacacttctc	240
atcatattgt atgtaagtaa ttgcatttct gctcttccaa agctcctgcg tctgttttta	300
aagagcatgg aaaaatactg cctagaaaaat gcaaaatgaa ataagagaga gtagtttttc	360
agctagtttg aaggaggacg gttaacttgt atattccacc attcacattt gatgtacatg	420
tgtagggaaa gttaaaagtg ttgattacat aatcaaagct acctgtggtg atgttgccac	480
ctgttaaaat gtacactgga tatgttggtta aacacgtgtc gataat	526

<210> 345
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (334)..(334)
 <223> n is a, c, g, t or u

<400> 345 ttgtgtacac ataatctcat ttgagatat ataactatth ttgtctttca gaagtgaatc	60
aaaatatttc aaaatgctgt cttatgaaac tacaatattc tcacagatta gaaaagttht	120
tctgtaaaag tcagatagta aatatttttag gttttgcagt gtcttttgca actactcaac	180
tttcctactg tagcacaaga gtagctgtgg tactgtgcaa ataaattgct tgtgttccaa	240
taaagcttca tttacaaaaa catgccatgg gccatatttg gcctgtacac tgttgtttgc	300

342-42PCT.txt

caagtcctaa tatagttgct tagcaagtat tgtnagctat ttgaggaaga catgaaagtt	360
cattggggttg ctaaaaagta tgtagaaatt caaaggaaaa ttaaaattta ggctaagtta	420
taatacactg tttta	435

<210> 346
 <211> 343
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (95)..(95)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (227)..(227)
 <223> n is a, c, g, t or u

<400> 346	
tctcatttac cttctctctt gagcaacgtc agtaattgat cttgcatctc agagagagag	60
aaagagcatg tgtgagagag aaactggttt ctatngccag cactcctgaa accccttact	120
gtaaggatat tttctcttac cccttgggat ccaggctctg agtctcttct ctttgggagt	180
atccatcaaa atgacttttt ttaaaaacag attttcccc aaccagnaga atctgcacaa	240
acttggcagc gtttttactt gtttaatgag ttaagacat tacatggtga aagagaagca	300
ttttggactc ctgcattttt atttaccatt cccagactga cga	343

<210> 347
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (74)..(74)
 <223> n is a, c, g, t or u

<400> 347	
gcctaacaat caaatctctt tcttttaaag cacnaccttc taggcaggga caggagctca	60
ttttccacac catnctttgt caactctcat agaaagtttt ccttgtatcg agctcaaatc	120
tgccctctgg aaattcttct tcttcttccc tccctgttgg taccagctct gctgtcagag	180
acttcacagt ctgtgctccc tctgccctgt gacgtcttca gactatttga gaacaggaat	240
catgactcct gggacttgcc ttttctctag gtcaaatacc tctataattc catctgctgt	300

342-42PCT.txt

tcttcatagg gtcttctccc tatcctgccc ttttctcca atccatcttt taactgctct	360
tgagcagtct aactgagaag tatgattcaa agcaaaataa atcttaaggt ggcatgactc	420
tgaaaaaatt gagaaaattg aactcagaga tcccgatccc aacccctttc tcctgggagt	480
gaaaccttag tttctaccag agagtgtggg aaaccacttc tggtggaagc ccct	534

<210> 348
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (241)..(241)
 <223> n is a, c, g, t or u

<400> 348	
aacattccct tgtcaaccaa gaataactcaa agctacttgt attggaaatg gcagaaggcc	60
taaatccaaa tttcttattt tttataattt accatagaag ttttgtgant aaattcttac	120
ttctgccagt ggaggtttat gcctgaaagg tcatgggggc ctgtctgtaa atagacctaa	180
agagaagtgc agtattttatt cttttagagg ataagtgtt tgtcactgac aagcattcat	240
nttcatccca ctagtctttt attgcagtct tttattgtca ttttcagcct tatgttggag	300
agctttgctt tctcatcatg ttcacattgt ctttaagttt gtgagcttct gagaaagagc	360
ttggtaaagg tttaaagggg actttgttcc accagggagc attttatttg ggcgtctcac	420
ccttttctaa tgaaagctgt tgtaagccac ctctgacttg gaaattctga aagtatgaat	480
attttttata tcttaattgt aaaatgccag ttctccatta tttagatgaa tagtagaaca	540
ctgcaccctt tgtgcagtgt ttttgtttct ctactgcatt	580

<210> 349
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 349	
ccagtcttcc tggcaagggt aaacagatcc cctctcctca tccttctctt ttctgtcaa	60
gtgcctcctt tggngaagggt gacacatcat gtgacctctt cagtgaccac tctacgggtgt	120
cgggccttga actactaccc ccagaacatc accatgaagt ggctgaagga taagcagcca	180
atggatgccg aggagttcga acctaaagac gtattgcccc atgggggatgg gacctaccag	240
ggctggataa ccttggctgt accccctggg gaagagcaga gatatacttg ccaggtggag	300
caccagggcc tggatcagcc cctcattgtg atctggggta tgtgactgat gagagccagg	360

342-42PCT.txt

agctgagaaa atctattggg ggttgagagg agtgcctgag gagagccctc accgtctggc 420
 accctagtca ttggagtcac cagtgggaatt gctgtttttg tcgtcatctt gttcattgga 480
 attttgttca taatattaag gaagaggcag ggttcaagag gagccatggg gcactacgtc 540
 t 541

<210> 350
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 350
 gaataaatct ctgggaccgg gtctcaccat attgctctgg ctggtttcaa actcctgggc 60
 tcaagcgatc ctctgcctc agccttccaa aaccagggtg ttaacttggg actaacatga 120
 agcacttaga agactacgtg gaacatagca atgactatat atgtactaca acgtaaacag 180
 cacctcctgg attgaataga acataactga catgaccagc agagacaggc taaagacact 240
 gagctgaaaa ccctggactc tattgctaaa ttgaggctcc tgaatccgtt cgctctgagc 300
 aactgttgct gtggtgctgc cttcacaagc actctgctga gcactcagat agaggggctg 360
 tgctatccgt caacagacaa gctgcagcca gaactgctca gctgacaaac tggtg 415

<210> 351
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 351
 gtggggaagc ctgaacacag tcctataaac taaaggccac tgcagacttt tagcacaagg 60
 agatcccttac agggaacatg tgccatcagc tctttggagt gaacaaggaa ttagaccccc 120
 atcatgccaa aaaactagga tttttagggtg gtctttccat cccttcagat ttaagtattc 180
 aaagaaagag agacagacct acattccaag ggtcttctga gtgcaaggcc ttgtgttggt 240
 tgtttattta ggggagggcc tgggtgctctt ctctgtttta tgctttacct tcttttattt 300
 ctcagatctc atgttagcac tatgttctga attccctaata atgggtctt gagaactgat 360
 ttacattttg ttggtttgtt tacttcttga gcacataaaa ggaccccaaa ttagagatac 420
 tatcccttgg gcttctga 438

<210> 352
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 352
 gtccactgct ggaaatagaa gttttttcgc tgcagggcaa ttctgtaaat gtgcttccca 60
 gctttaggag gtctgaggct actcttctcc aataaccttc cttcccactg gaccttctca 120

342-42PCT.txt

ctcacagcac tgcctgcctc tggacaagcc acagtggaca aatatgtcaa gctgaagatg 180
 cacaataat ttcaagttca gttctcaggg attcaaagga catg 224

<210> 353
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g, t or u

<400> 353
 tgtcctgggg atcttggagc ctgaattcat tggcacaaaa ggcagcagca tcctcactgt 60
 atctgcagtc catttggact caataaaaac tttgaaagtc acatgtgtta tgggaattcct 120
 tctcagtgc acattcatct gtgctcagtt gtcccagcaa gggtcagccc ctcatanccc 180
 tgcagcatcc gctgctatga agcagagctg taaacgccct ccctgtgtat aggaaaagct 240
 acatggagca aatcctcctg cctgaagaag tgcattctcag catcacttca gctgtcgggg 300
 catttgtggg gagaaccaga ccacctctgc ggaaggcagc agaccctctt ccagccatgg 360
 atggagttga attctctata aacgggttcac cagcaaacca ccaatacatt ccatt 415

<210> 354
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 354
 gccagggttaa tggatcgat cctaattgggg attcggcaga gtttgatttg ttgtttgaaa 60
 atgcttttga ccagtgggta gccagcacag cgtcagaaaa atgcaccttc ttccagatcc 120
 tccaccatac ctgccagagg tacctcacgg acaggaagcc agagtttatt aactgccaat 180
 ccaaaa 186

<210> 355
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 355
 ctttacccta ggctcaggggt cagcaaaacta ctgcctgtgg gccaaatttg cccaccacct 60
 gtatctgtaa ataagggttc attggaacac agctgtggcc atatgtttgt atattgtgtg 120
 tggctgcttt tgcattagga tgacagaggt gaatagttgc aacagagact ggctggctctg 180
 caaagcctaa aatatgtcct gtgtggccct ttacagaaaa agttttctaa cccctgctct 240
 aggttacgga gaaaaaaaaa tgggaataatg ttctctgcta cttttaacct gattttcttt 300
 gtacctaaat aggcagctag aatgctgcct atattttaat aaggatttgg atctcacaag 360

342-42PCT.txt

acaccttagg cctacacaag ttgttcagat tctttgcccc agttctaatac tagtgacaaa 420
ggcatagaat tctcctccca caggaatgta tttctat 457

<210> 356
<211> 373
<212> DNA
<213> Homo sapiens

<400> 356
cagtctcctg ctcgtttaga agtaagggat aataatgtat ccatagctaa atgcccagtc 60
gttatatttt ctagatcaag atgcttggtg tgtacagttt cacagagcct tcggattttt 120
tctttaattt tgttcatgtc tttttcattc agtagcttgg ctgatgaagc atcttgttcc 180
agttccaaaa gtcgaatcat tagatccaag ctagctctat caagatccat gttcaaacga 240
tctctactca gtatatacat gagggcagct gtacagaggg acagattctg atggtgctgg 300
gaatcatcca aggttttaaa gaccattgct accatcccat gtgctctcag gtgcattcgc 360
cagtaggcca aca 373

<210> 357
<211> 116
<212> DNA
<213> Homo sapiens

<400> 357
tttgctccta acttgctcct ggacaggaac cagggaaaat gtgtagaggg catgggtggag 60
aggctagaga tcttgatgat tggctctcgc tggcgctcca tggatgcagg gagagg 116

<210> 358
<211> 522
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (297)..(297)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (418)..(418)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (483)..(483)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (486)..(486)
<223> n is a, c, g, t or u

```

<220>
<221> misc_feature
<222> (490)..(490)
<223> n is a, c, g, t or u

<400> 358
gggcatctgg aattgacaca ccattacatt ctgtttgcag gatttttttt gtaaccatga      60
aattgaacat ttccaaatta taaactatgt taatacctat aaaatatata gccaggaacc      120
atztatcatc aagaaaagtg taagaaatta tttttgagat gtaatttaag attgttttat      180
gtaaaaggaa aatcttgtat ggcacgaat agccttaatg aatttaattc tttcacaaaa      240
atgatttcaa attatcctag agtataacat ttttatcaaa gatattattt ccggagntct      300
tctttctttc tttttttttt ttttttagta atttagcaaa aacattactg ttctaattgct      360
gaagtgactt ttgccagtgc catgtccagg gggggaggta taagttactt gctcttanca      420
tttgggctgg attttttggg ttgggggaca cctttgggag tattcccaaa gcatgtctca      480
agngngngcn cccgagagca tggtttaaaa gcttggaacc ct                          522

<210> 359
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, t or u

<400> 359
gctgggcccag tgcactaac agccctgtgc agcagcttcc cttgcctcgt gtaacatgag      60
gcccattctt cactctgttt gaagaaaata gtcagtgttc ttagtagtgg gtttctattt      120
ngttggatga cttggagatt tatctctgtt tccttttaca attggtgaaa tgttcctttt      180
aatggatggg tgaattaact tcagcatcca agtttatgaa tcgtagttaa cgtatattgc      240
tgttaatata gtttaggagt aagagtcttg ttttttattc agattgggaa atccgttcta      300
ttttgtgaat ttgggacata ataacagcag tggagtaagt atttagaagt gtgaattcac      360
cgtgaaata                                     369

<210> 360
<211> 378
<212> DNA
<213> Homo sapiens

<400> 360
agatactcag cactagacta acataacagg tcactacacg ggtgcagaat cactttacaa      60
aagaagactc tgttttacga aggggattca ctacagggac ttagagaaca gtctcttttc      120
tgccttttaa atgagagttc ctccatttac caaaatttga cacgcacaca ttcttcaggg      180

```

342-42PCT.txt

gcatgccaat tgcgtaaagt gaggctcgcc tgcatagcta atcctgttaa agacaacttc 240
tcaaagcaca acgtgcttgt ttctatcgg gctccctgcg gggctttctc tcactacaag 300
tcaagcttgg gctctcaaag ccctgcgcct gttaccacgg atgcccacag ggcctgggca 360
gttgctgtgg cgacagga 378

<210> 361
<211> 291
<212> DNA
<213> Homo sapiens

<400> 361
acagtggatc aaatttaggc ttcttgatgc aggcattgtg tagattacta cttctgtatt 60
gtcccaggag ctccagcacat tccttgccag agatgataag gagctcaatc ttgaataactt 120
gttcaagctt ttgaataaaa aaccacagtt cctcaaagaa gaagaagaat tgcgaaatca 180
ccggaataaa ccgaaaactt cccctgttt gactttcaac attcttgaat gcaccaagat 240
agcctctttc tgtgagatta ataaatgaat aaatgcctcc atatttttca a 291

<210> 362
<211> 313
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, t or u

<400> 362
aagccggatg gcaaaagagc ccagaacctt ttggaactga caaatcaag tcacggcgcc 60
tacaagatg aggggcagat tctggctgcc ttttaatttc gtccttcacc tgatatctgt 120
gccagagaat gtcttccagg agttctgcta cagagaagag agtaaccccc atccatcatg 180
gccaaagcac ccagtcaggn tccgctctgg atccagcccg acaaatgcaa cccttgaata 240
gggtttgtgc aagcaaactg gatgacgacc gaagaaaccc tgcgcttctt gagaagacac 300
ccaatccaag aat 313

<210> 363
<211> 318
<212> DNA
<213> Homo sapiens

<400> 363
cctggaccca actttgttac tgtgagaaag ggtcttcatt cattcaagat ggcatttggt 60
aagcacctac tgctggagtg cagtggttca atcacggatc actgcagcct ccacctccca 120
gttcaagaaa ttctcatgtc tcagcctcct gagcagctag gattacagac aaaccttgga 180
aatcaagaaa gttctggaat gatgaagctg ttcatgccaa gaccgaaagt gctggcccag 240

tatgagtcca ttcagttcat gccgtgacaa ttttcttgga actccttttt attgtagtt 300
ctcacttggt tccatatt 318

<210> 364
<211> 531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (117)..(117)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (119)..(119)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (122)..(122)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (153)..(153)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (155)..(155)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, t or u

<400> 364
ttagcatctt ggttactgga gaactataac ttttatgtag tcatgcttgg aaaacactaa 60
aagggaatc gagtctgttt gacaatatc tgtcttcact gttgttcact tcataangng 120
tnggaatata aagttctata cagttaatat gangntctct ttagcattta aaacatgatt 180
tgcattttca tgaggcattt tggctaattt tattgatttc cttatatattc atagtcctta 240
nccttatgag aatccttatgt ttctgtgtgt tttctatcat gtagcacaat ttctgacaca 300
caaaacatac aataaacttg tgtaattttt tctatcaaag tcagaattta ttcataagga 360
atctgaagta aggtgtacta agcttggtta tgggttaagt gatatagcca aattcaaac 420
tttacttttt atgtcagtct agaaatatct cagattaaac catatcactt cttagttcca 480
attagataag ggaaatcttt tataataatg ccaggattgc tataatctga t 531

<210> 365
<211> 525

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)..(36)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (39)..(39)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (78)..(78)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (92)..(92)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, t or u

<400> 365
aggccatagt aatcatcctg ctgatattgc aagtnngtng ctagaatgag gttatataat 60
atatacaaaa acattttntc aactgntaaa gntgccttag taatataggg taataccagc 120
aacattatgg atatataatt atagtctatt gggccacact taagtttgga gtctaataaa 180
gtcacaatca aattctgcaa tttcaattga agataacctt gtctttatat tatnaattag 240
aagctaaagt tgatttttct aagagttctt tatttaaatg aagtactctg ggactgacct 300
tttcggaaat ggaatcttca ttggtcaggt gattcaacat ttttatacaa tttatccatc 360
ctcatctctt caggatttgc ataccttgcc agtttctact ggccattggt gaaaatacat 420
ttatttggag aagtccaaag ccaaggggct catgggggctg tgaggtcctt cttgctgcat 480
cgtcctgtgg tagaagggtg aggagtcaag agagtgcccc agagt 525

<210> 366
<211> 267
<212> DNA
<213> Homo sapiens

<400> 366
gggccaatga aagcagggtc aaggacagga ccagcgcagg ccaaggaagg gaatatctga 60
cagcgccccc ccagccaaac cctcagccca aggacaggaa tgaggagatg ctggtgaact 120

342-42PCT.txt

```

agccatccat cagtacctgc cttcccccca ggctgcagcc ccactcccag gcgcctggcc      180
agggggagttt tctaggttct gagagccacg ttgtcatccc tgggctttga agttaaacat      240
cacacagctg tctataaaca agattttt                                           267

```

```

<210> 367
<211> 199
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (67)..(67)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, t or u

```

```

<400> 367
gattcagggg ttggatgagt ctctatgggt tggtttgccc tgaagagcag aaggcttctg      60
tcccaantgg tgttgccaaa gcaacatatt aattccatgc catgatnctg ggtcaagatn      120
tgcacaatct gattgggcat gtcacctcgg atggcaaggg agtggaagtg gtcaaaatca      180
tggagtccca gctttcgga                                                    199

```

```

<210> 368
<211> 372
<212> DNA
<213> Homo sapiens

```

```

<400> 368
gccccatggt gcataggtgg cctataacca gtcagacaca ggagacaaca tgaagcccca      60
tctgtgcttc cttttctgac attaccacat ttgcctgatg gagtggccag ctccctttca      120
ctgctggaat gaatacaatc cagaaaacct accttctatt gctttaccta atggggtaag      180
gaaatttaag tagaaattgc taaccgaaga ctttgctaag caaaccagg tctgcttgat      240
gtcagagccc ttgctgttaa ccccatTTac tgcttagcct ccaaagagaa gcaatagcat      300
cacatgggga aatgtcaaca gcataagagg actttcataa tcagaattta aactggctat      360
tatccctctg ga                                                            372

```

```

<210> 369
<211> 296
<212> DNA
<213> Homo sapiens

```

342-42PCT.txt

<400> 369
gaccgtgact cctgaagctt ttcagcgcag gtgtagccgg cttggcgctcg ccgcagtgag 60
gtttggagcc gctttggatt gctgagtcac tttcttcagc cacttaggga aaccgaaagt 120
ggaaactcgt ggggcttgaa atagtgtgtt ctcttgagaa ccaccgaggc agtgagattt 180
gggattccgg ggtctggaga tcgtgctttt tgtggactgc gtttgcagtt cctaggggtgc 240
tgctgattca caggccttct ctgtctttaa gtgtgcagat cattgaccgc tcagtt 296

<210> 370
<211> 228
<212> DNA
<213> Homo sapiens

<400> 370
aaaccagag ctttctggat gtgtgaggta gtaggcttca accctcattc atgcataggt 60
cacacttctc caaagttggg atggcctgtc tccttggcat gttcccttgc ttctgcttgt 120
ccagttaatc ctttctgaca taccatgcat ctcaggggtga agcggttgac atcagtaaac 180
tgtctccttc ttctagcttc atctgcta atccagtgtt gtacaaga 228

<210> 371
<211> 206
<212> DNA
<213> Homo sapiens

<400> 371
cctcctgatc accatagctt tatgcaacaa caagaaacaa atttatttagc taacctaacc 60
actaatgacg caagagacaa ttctaaggac tttcaaaaca gcaaagtagg agcagctgct 120
acctctaggg atgaggggatg caattgtcca attattggtg aaattgtcat ttcattgctat 180
tggtattttg aaattcctcc tcta at 206

<210> 372
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (94)..(94)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, t or u

<400> 372

342-42PCT.txt

```

cctgcctgt actaatgatc caaaaattag ccagggtgtg tgggtgcgtgt ctgtagtgcc      60
agctactcgg gaggctgagg caggagaatc tcangaaccc gggaggcgga ggttgacagt      120
ngccgaggtt gcactactgc agtccagcct ggctctgtct tgggtgttcag ccatgttccc      180
atgctcactc ccaagggtgac tctgggaagg tctcagcctt tttgtcttcc cagttaggat      240
ggtcccatgc cctgtttacc atcagacttg gtaagtttcc cgaggagact ctgcaagagg      300
cactgttctg gatgggtggag gagagactag ttgttctgct ctccctggcca cagtgggtgc      360
agtggacccc atcatggaga anttcaacac atccagccta cgaccagcac ctgtgggagg      420
tggatattca aggacgcaga gcctacagcc ggggcatgga gaa                        463

```

```

<210> 373
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (87)..(88)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (406)..(408)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (421)..(421)
<223> n is a, c, g, t or u

```

```

<400> 373
agggctctcaa atgaactctg agttaccatc tttggacnga cttttaatat aaagctgtaa      60
tccttaaadc tgtgtcagta gtcccannta ctatgtcact ttaattggat gaatgcgtta      120
atgaaaagtt tgttttcaaa cctcactaaa ctgctactta agatcacagt taatgtgagt      180
cctgcttaat ttggaaagca tttaaaaaat ggaaaagttt cttagggaag naaaaatttt      240
gcaactctgc ctacaaggta cagtaattgg ctaggttctt ttgaagagca gtgttgacta      300
gagttaagga aaagtcagtt gtgaaaaatg gacattttta atagcaaaaat gatgtgcttt      360
actgtagaaa caggaggaag ggtgcattat cctggggaaa atgaannntt cttcagttat      420
nttttatgct gctctacttt attgcaaaac g                                451

```

<210> 374
 <211> 46
 <212> DNA
 <213> Homo sapiens

<400> 374
 cagtcaccga ccttcacctga gattgctacc tggaagctct ttctat 46

<210> 375
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 375
 gaataagtac acagagtccc caaagactag tgaggccaag atgtgtgagt catttttccat 60
 cacacacaaa aaaccaatt gttctaagta tgtattttac caagcagctt tatagaaaga 120
 aaaacaaaca aacaaaccaa acaacaacaa caacaaaaaa ccttgggccag gcacagtggc 180
 ttacacctgt aatcccagca ttttgggaga ttcaggcgagg tggatccttt gagcttggga 240
 gtttgagatc agcctgggta atgtggcgaa acctcatctc taccaaaaaat ataaaaacta 300
 gccagggtgtg gtggtgcacg cctgtagtcc cagctgctta ggaaactgag gtgggaagat 360
 tgccctgagcc caagaggtag aggtttcagt gagccgtggg aagattgcct gagcccaaga 420
 ggtagagggtt tcagttagcc gtgggaagat tgccctgagcc caagaggtag aggtttcagt 480
 gagccaagat tgtatcactg cacaactgtt gcctgggca 519

<210> 376
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 376
 cctgctggac agccgcgcag gatgagccgg agaccccgag ggccgtggcc ttccaggact 60
 gccccgtgga cctgttcttt gtgctggaca cctctgagag cgtggccctg aggctgaagc 120
 cctacggggc cctcgtggac aaagtcaagt ccttcaccaa gcgcttcacg gacaacctga 180
 gggacaggta ctaccgctgt gaccgaaacc tgggtgtggaa cg 222

<210> 377
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 377
 atagtagggg caattttgtc tgtagatggc agtatgacaa ttcttgctag agaatatatt 60
 gaaaaaaact tcaacacaaa gggttgtagc actgtcctca gtaccattgt gtgcatgagg 120
 atcagaatag tctgggctag atacatcaca ttaaagcttt tcagaatctg ataaatagct 180
 ctaaatacta atgatattga gaagcctagc ttcacttggg aaaatctgtg gctgttcaca 240

342-42PCT.txt

gaaattcagc accaagttat tccccccata ctctaccagg ccttcaggtc ctcataaaga	300
aaagtgtcgt tttcagatta ggaactcaaa attatttttg tgcacaaat ctacagtcac	360
acaatataac aagaatggga ttagaaaaat gaaagcctac tcattctcat ctttaagcca	420
gagaatgaaa tatatatgag gtctctggat agctatttaa	460

<210> 378
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 378 cgccgcatca agccgtggcg gagatcgacg cgctctacga cgtgtacctg gacgtgatcg	60
acaagtgggg caccgacgac atgctgttcc tgggcgactt caacgccgac tgcagctatg	120
tgcgggcgca ggactgggccc gccatccgtc tgaggagcag tgagggtcttc aagtggctca	180
tccctgacag cgccgacacc acggtgggca actcagactg cgctacgac cgcattgtgg	240
cctgtggcgc ccgctgccc cgagcctga agccccagtc ggccaccgtg cagcacttcc	300
aggaggaatt cggcctggac cagactcagg ctcttgccat cagcgaccac tttccagtgg	360
agggtaccct caagtccac cgatgactcg aggcctgact ggggcatgcc acctgcagac	420
cctggctctg aggaatggcc caacagtggc cccttcaggg tggcagccac ccttcagtga	480
ggccccaagg cagagtcggc tgggcgtgga ccaggggcat ggacacgtga tgtgctgctc	540
tgta	544

<210> 379
 <211> 254
 <212> DNA
 <213> Homo sapiens

<400> 379 gaagtttgtc ttcctacaac cacgtgatcc tctctctggg atttccccac tcaaccaggg	60
acaagaggtc aaagttgacc tgattatgtg tccatcaagg aagtggccct ggaaggcaaa	120
taaagaaggc accatttaca ttacagtctc ctaagtgcag gcaatgatac cccaagggtg	180
ggctctgcag accctccagc aaagagcttt tgaaaataaa tgtgaagctg ggcttaggag	240
ctcatgctcg caat	254

<210> 380
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (140)..(140)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (295)..(295)
 <223> n is a, c, g, t or u

<400> 380
 aacctgctaa ccaagaatgc tttacctggc aaagctgtcc ttcagaaatg agggagaaat 60
 gaaagctttc tcagacaaac aaaaacaaag gaaacatgta aaagtgaaaa aataaatggt 120
 ataagtaata tatagtcccn actcagaatt ctctaatact gttaagggtg tgtgtgaagc 180
 aatcttatta ctactaggag ggttaagaga caaaactatt aaaaacaact gcagctacag 240
 tatattgtta aaggacacaa attttaagtt tacatcaaaa tcagaaaaca tgggnaagga 300
 aggaatgaaa gtgcagagtt tttgtatgtg attaaaggca aattgttatc agtttaaagc 360
 ctgttttaag gataaaatat tttatgtaag cctcatgg 398

<210> 381
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 381
 cccgccgcgc gagattaaag gacagaccaa gagggcgcgc gagctaccag cttggagggg 60
 aggacagatg gggaccacag gctggccagg gctggtctct ggagctgttc tgccagagtg 120
 atgggggcgc ttggcgaggc caaggatttg gttgggtcct atctctgaga cattttgaag 180
 tctcacacc cttccatttg ttgcctattc cacttaactt tgtatttggt tgaaatctac 240
 tgttcggatg ctggactaga agaggacac ttggcc 276

<210> 382
 <211> 119
 <212> DNA
 <213> Homo sapiens

<400> 382
 aaacataaca gaggagtgc gaattttatg aaatttctga gtcttacaaa cttctcttta 60
 agactatgag gaaatgctga cttgtattat ttatatcatt aaatttgctt gtgtatggt 119

<210> 383
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 383
 gtccctgctg tttagtatgc tggagtggag gttctgtgac ttctgttta gtggtgctga 60
 ttctagttag tgtgaaacgt cagatttcat ccagtcgcg tggctgattt ttttatgtgt 120
 gggtctctgt gtttccagcc tggctcctgct ggtcaggatc ctctgtggat cccggaagat 180
 gccgctgacc aggctgtacg tgaccatcct gctcacagtg ctggtcttcc tcctctgcgc 240

342-42PCT.txt

cctgcccttc ggcattctgg gggccctaatt ttacaggatg cacctgaatt tggaagtctt 300
atattgtcat gtttatctgg tttgcatgtc cctgtcctct ctaaacagta gtgccaaccc 360
catcatttac ttcttcgtgg gctccttttag gcagcgtcaa aataggcaga acctgaagct 420
ggttctccag agggctctgc aggacaagcc tgagggtgat aaagggtgaag ggcagcttcc 480
tgaggaaagc 490

<210> 384
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (72)..(73)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, t or u

<400> 384
gatacctcat tatacatctt acagagagca tcattggtgt ttccaaggctc acagggctag 60
gcaaggggtgg annoctgagt ctgcttgtct gtttgcccca tgacagccca ggggtggtgg 120
cctcactcca cctccaggca cccacaagaa tataaaatct tgtacaagga tgtcgatatt 180
actattgcca ttcccaagtg cacctgcacc tgtagtatca ggtgggttnc agccttggct 240
gcatagctgc atatgagaat cacctgggaa gcttttaaag atcccagtat cccacctct 300
tccccagtta cagtggagtc ttgcgggtgg tgggggacat cattattttt gaagcttcca 360
agtaattctg gtgtgcagtg ggggtgaccag ctgtcccagg gacctccttt aaaaaataat 420
atcccgggca catgacaggc caattgccct aatgcaac 458

<210> 385
<211> 510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (343)..(343)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (467)..(467)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (471)..(476)

<223> n is a, c, g, t or u

<400> 385
cacctctgca cttttgtagg ctcaacaagt actgggggagc ctgccaccac tgtatgcctt 60
tgaggcccct gccctgcctc cctggctggc cacggagctc gccctccctg gtaggggggtg 120
agtttggaag tgagaggctg gtgtgggtct gtcccatgag ctgactcaca cttgcctcac 180
cacacatacc atcagaagac ccacgtggtg gagctaccgc tgctgctccc cacagtgcac 240
ctaggcaccc tctgtcctt cccatggcac tcggttgacc tgggggttcc tgtccaacag 300
gtgaggcctg gtgtgcacag acactctgcc attgctagaa ggnggctgtg ccccttgcta 360
agatatcagt aggtccttca cagcctcacc ttgttcctcc catttgtttt taaaaattgt 420
ttcttatata tacagtttat ttagcttacg taaacatttg gtgcacntaa nnnnnntcaa 480
agatcatgat gtctcttttg tggttttata 510

<210> 386
<211> 92
<212> DNA
<213> Homo sapiens

<400> 386
cctctgccat tgcccaaaga aagtacgcag gagggaaggc gccgggggag caggagtcgg 60
ggggaagtga aatctcgga ttagaacccc cg 92

<210> 387
<211> 394
<212> DNA
<213> Homo sapiens

<400> 387
aaggcgccgt caagtcaaat aaataaatgc cctacaacac caaccagga ctgagatctg 60
catgctggaa tgacgggtgg ggtgggtggc tttagtattc cccaggtttt gtccggagca 120
ccggcacgcc ctctcttgaa gtccgctctc cgcacagtgg ttagacggga agatccggag 180
ctgtccagtg tcttgggtaa tgcacggcat cgctgatgt ctgacgctag aacaccacgt 240
aaagtcaagc agaggggaagt gaatgcgcc taggcccctg caggccacca agaagagcta 300
gagggagttg gtgcaatcct agagatgccg gcaggtgcac caatctgtgg cacacgtacg 360
ctctccaatg gaagacaact caagaccaca ccaa 394

<210> 388
<211> 289
<212> DNA
<213> Homo sapiens

<400> 388
actataatgc acttcgcaaa atgtaagggg ccggtttcac gccagcgggg ccttctggga 60
ctttgaattc aaccagggtga gcgctccagg tgccccgaca ggcgactgt agccactggg 120

342-42PCT.txt

tgttaggggc gggagtctgg aaggtgacgg tagacggcca cttggggcct tctgggggag 180
 agcctactgg tggggtcagg gctctccgtg ctacagagcaa ggtagaggag caaggcccta 240
 cttttggggg gcaggggtcca gaccaaggac cctatgcgag gaggggtggc 289

<210> 389
 <211> 139
 <212> DNA
 <213> Homo sapiens

<400> 389
 aggcctgacc gaagagaact ttaaggaact aaagcaagac atttctagtt tccgctttga 60
 agtcctggga ttactaagag gaagcaaact ttccacaata caatctgcga atgcctcgaa 120
 ggagtcttca aattcggca 139

<210> 390
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 390
 caggttcttg aagttctcca ccatgacatc tcggtacagc ttctctctggg taagatcgag 60
 cagtcgcagt tcttccctgg agaagaccac agccacatcc ttgaatgtca cagcctccta 120
 caatatcaaa cacatgtaac ctcaatctta caaccaacct tcactagaag aaggggtggca 180
 tcaagaagga aaagagcacc acaaaaaagt tggttatagat tccaagagat ctacgtcaat 240
 tttcagctgt tacagttttc cctgtctcac tatctcctac gctcatcccc ataaagcctg 300
 tagtttatca ctgttttttg tttttttctt ttttgagatg gagtctcact ctgtcaccca 360
 ctgcactcca gcctgggtga caggggtgag acactgtctt aaaataaata aattttttaga 420
 attaaaataa atagatcata aagtgtttga aaggatcaga tgaatgaata tatgtcaagc 480
 acttagaagt gcctagcaca ccatacatgc tcaataaact cgaacaac 528

<210> 391
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 391
 gccaggggtc gccaatcctg gaacccact ggcttagagg gctgggggag agaaacatgc 60
 tgccctcttt gtagcagtca ggcgctgacc caagagaact caccttattc ttcatttcgc 120
 ctggtaatcc tccaggccct tctctacacc ctgaagggga gggaggaaaa tggatgaatg 180
 agagaggggag ggaacagtgc ccaagcgctt ggctctcct tctcttcctt cactttgcag 240
 aggctggaag acggcagccg ccggactggg cagatcctca agcagaccta cagcaagttt 300
 gacacaaaact cacacaacca tgacgcactg ctcaagaact acgggctgct ctactgcttc 360
 aggaaggaca tggacaaggt cgagacattc ctgcgcatgg tgcagtgccg ctctgtagag 420

ggtagctgtg gcttctaggt gcc

443

<210> 392
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 392
 tattggcacg tagcagtaca aggatggtga ggggtgggta gggggcagac agctaggcac 60
 ttgaaaggaa agctcatctg gaaagattgg atcgtctcaa atgcacatac tcgtacactc 120
 gattgaagcg tactctgtgc ctactagatc ttttcacagc caaaaacacc tggcaaccct 180
 tggagaagta actattcctt tttttcaca gtaagaaaat agagcctcag aaaatttaac 240
 agttgtctaa gctagaaagt agcaggactg gactttgaag tagtctttag gttgtgctgt 300
 acattttgtg gatatgctta aatcacagtt tagcttgtag acattttcct ttattagaat 360
 tggaagtaag tattaatggt tgaaaaaata ttttagcctg acaatattta ttctatcttc 420
 atatgttttt gaaattagat attttaaact aggcacggtg gct 463

<210> 393
 <211> 376
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (65)..(65)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (99)..(99)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (123)..(123)
 <223> n is a, c, g, t or u

<400> 393
 agtcatcttt agtctcatct ctctcnctcc cttcttcctt gatgaataaa gtttattggg 60
 atggntttca gatgctcagc ttttccatat gattaggtga gtgatccaga acccttccaa 120
 agnaccctgt ggactcaacc ctctgtttga acaacataca agataatatg agacatttat 180
 ttatcgagga ccctctgagc acctggcact gtgccagatt ctttcagata tataaaattt 240
 cacttgctcc tgttgattct ggaaaggagc aacggcatct tatgaagctg tagcagatac 300

342-42PCT.txt

tgtcctggcc tcgctcatgt gtgtcagatg tgttggagtg ccttggtgc tgctctgcat 360
gtgtagctga ggtcct 376

<210> 394
<211> 220
<212> DNA
<213> Homo sapiens

<400> 394
tggattcatg ccaaaggaaa ctgaaagcct gcctttcttt ttttcccagt gcacatctca 60
gattatttgg cctttgtccg aggactgaaa acagttctgt gtccaagtat gtttttaata 120
cctgatattt atttcacaaa aaaactgaaa ttgctttgtg tgtccaggct tgaatgttta 180
aggcatactt gattaataca tgtgtgctga gtgcttcctg 220

<210> 395
<211> 553
<212> DNA
<213> Homo sapiens

<400> 395
caaccgccac atagtcacat tgtcaaatac cgtattcacc ttctcttata agaaggctca 60
gcgagatctg gcgtataagc cactctacag ctgggaggaa gccaaagcaga aaacgggtgga 120
gtgggttggg tcccttgtgg accggcacia ggagaccctg aagtccaaga ctcaagtatt 180
taaggatgac agagatgtgc atgtgggtat tgtaggaga tgtcatcaag ctccaccctc 240
ctggcctcat acagaaagtg acaagggcac aagctcaggc cctgctgcct ccttttcata 300
caatggccaa cttattgtat tctcatgtc atcaaaacct gcgcagtcac tggcccaaca 360
agaagggttc tgtcctaata atataaccaga ggaaagacca tgtgggttgc tgttaccaaa 420
tctcagtagc tgattctgaa caatttaggg actcttttaa cttgaggggc gttttgacta 480
ctagagctcc atttctactc ttaaatagaga aaggatttcc tttcttttta atcttccatt 540
ccttcacata gtt 553

<210> 396
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (90)..(90)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (103)..(103)
<223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (111)..(111)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (114)..(114)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (124)..(124)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (132)..(132)
 <223> n is a, c, g, t or u

<400> 396
 ctagaaactc actcagtcct gtggttgcca acctttctcc atctcccgca gacgttttac 60
 tgcatgccag ataccatgtg cagtaacttn tgaatcctct cancccccta nctnccagaa 120
 cacnggacta tnagttactt gaaagctgag gcttggtaga gggctggagc caattgcgtt 180
 aaactaacta acattattgc aaaatatatt ctagggcttt tactctaata aaaatgactc 240
 ctggaactgc agtactatat tcttgaacc ccaagaaacc aggtgacaac ccataaattt 300
 accatcactt ttcagatgag gaaggcaaat ctggaaggcc aaattacttg tccaaag 357

<210> 397
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (184)..(184)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (195)..(195)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (350)..(350)
 <223> n is a, c, g, t or u

<400> 397
 gtttagcacat accattgaat tcaactgagac acatgagaaa atatgggaaa gtcggagagt 60
 ggaagtaaata gtaaagaccc ccctcctccc caaagagtac gttgtgtagt ggggtagagt 120
 ggaaaatcaa tccaagaaaa gtagcaaacg gacccaaaga tgaagaggaa gaaaagaaac 180
 agcnacacga aacgnaaaaa aaaagccacc agatttggtg caacgttgat gtaaacctgg 240
 ccgtcttcct gaaccagtga cccagggttt ccgcttcctt ttgctgtcat cttgctcaag 300

342-42PCT.txt

tctagaagct gaaatatcat catcaactcg acatgagggg ataacctctn gatccactca 360
tcagatgctc atcagacggt ccaattacaa aactgaacct cttcttagtg ctggggcggt 420
tag 423

<210> 398
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (132)..(132)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (150)..(150)
<223> n is a, c, g, t or u

<400> 398
ggacaaaaac tttcccaagt cagcttttta ctatgattac gtcctagcct cagatgtggt 60
ctaccatcac tacttctctgg acaagctgct caccaccatg gtgtaccttt ccagagccagg 120
gacggtgctg cnttgggcaa acaaattcan ggttcagcac cgactatgaa ttttttagata 180
aattcaagca agtttttgac acaacactgt tggctgaata tccagagtca tcagtcaaac 240
tttttaaggg gataactaaa tgggactaaa tccaacaaaa tgcctttcac aacggttactg 300
tgtcttttga gcaatgtggt agaaattgct ttggtaatag acttctttca caggattgag 360
aaggtagtgc atagaaacaa cttgtatact tggaacaaat gtaacaatac tgcagaaact 420
ttctaatttc taagataatt taagattatc tggttaatct aaatatctaa aaagaacaac 480
ataaaaacat gaaagtagct ttgttggttc caacg 515

<210> 399
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)..(60)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (62)..(63)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (65)..(65)
<223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (90)..(90)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (93)..(93)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (134)..(134)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (278)..(278)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (304)..(304)
 <223> n is a, c, g, t or u

<400> 399
 gactgccatc tgatcaacag ctacccttca gccaatTTca cctttctgtt acttnnnnnn 60
 annngccct tgtgtggata atgtncancn cantaaggaa tgcattgtag gtactttaag 120
 tcccagtaga atancagttc ataatatcac acatgtgggtg aaatctaaaa aggcaatagg 180
 gctaattttg gcaggagttg gaatagcccc ttgggatggc tttgcatact gtcagacagc 240
 tttgagaaac tttcaaacc ttgaaacact ggcaactnag tacaggcaga gccataaaaag 300
 gacntcaagc ctccctgcac tccctagcca atgctgtctt ggataacaga tttgccctgg 360
 aatatcttct ggctgaacaa gggcggggtat gcacagtaat aaaccacatc tgttgttctt 420
 acattaacag ttcaggattg gctaaactgc aagttcaaaa gatttaccaa gaccaggcac 480
 aat 483

<210> 400
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (483)..(483)

<223> n is a, c, g, t or u

<400> 400

```

ggagcaaaac acttgggaacc cacaagactc ccagaagggtg aagttaagag ctcccagact      60
cataagggtta ttagaacagc aaactggcac cccaaagaac tttacggaga cttgcaacct      120
atcaacaagt tggatgaggg attaaaagcc ttcaacaacc aacaaccca agcatcaaac      180
tgaaggaaac attctaacct tcacagacag actggagggtt ggatggggac ctggctgaag      240
acatctggag aatgaaagtt aagtaccagc ttgcattttt gtgcccctag attattttttg      300
catttttaaaa taagaagcat caaattgcgt gtctctgtgt aaaagttcta gcaattttgtt      360
ttaagggtgaa cttatttttg cttagggact acaaaaagag aaggtaattc ctagggaagg      420
aagaagagaa agaaatgaaa attagagaat aagattattt tgaatgactt caggtagcga      480
ggngtgtgtg tttgtgagtg tgtatttgag agacttggct catgcctgtg ggtcttctct      540
tctagtatca gtgag                                           555

```

<210> 401

<211> 327

<212> DNA

<213> Homo sapiens

<400> 401

```

ggctgagaaa ctactggagc accagggaca gtctgtaaag ttggatggac caccaatggg      60
aaaatgagag ctgcccaccc tggccttaca ctccttcaat taatacataa acagaaagga      120
ggatatacag agagccaaag gcccatggga cgtgaccaac attccactga gtctatacga      180
tcaaacagca aactgtttat catgaataca gaatgtgggc aaactcatga ctgtgcctgc      240
cccagaaggt ttgctgaggg caattgcttc ctgacgcaa gctccttgag gttatctatt      300
gggacatcca gagaatgcag tcttgca                                           327

```

<210> 402

<211> 497

<212> DNA

<213> Homo sapiens

<400> 402

```

gggtggcctg gggatagtgg cttcatcttt tggggcttca agattctttg tctttaaaat      60
caggggttat atcaagatca tcaaagttcc cattccatta aagaaaaccc tgcattgtatc      120
cataatgatg cttcttcctg ttaaatttac aatgaaggga aacctatcac ttaactgtag      180
gaatttccca aaatgaactg atgaccagtg atctctctat cagaaaatgg cagattttcta      240
gccttccaga actttgattt tcttggacat tcaatggttc ctttttccca aatatttttc      300
aactgatgcc aaaccttgga tttggtttaa tccacctttg gtttaggttt ggggaccctt      360
ttcctggacc gtcccagttt tgggttaaac cgatttggat gaccctgtga gtcgccactg      420

```


342-42PCT.txt

gataccgaca gtctgctgtg gtgcttagaa gccactgaaa cattgggtgaa tgtgaagtca 480
cttttgggggt gcctgcc 497

<210> 403
<211> 512
<212> DNA
<213> Homo sapiens

<400> 403
gaaagctcca aatccatgac agtcgaagtc tctgctcctt caggaacagg acatcttcct 60
ggccttaatc cattatagca gccgtgatgt catttctgta tttcaggaag actggcagac 120
agttgctttc attcttcctc aaagtattta ccatcagcta cagtccaaaa ttgctttttg 180
ttcaaggaga tttatgaaaa gactctgaca aggactcttg aatacaagtt cctgataact 240
tcaagatcat accactggac taagaacttt caaaatttta atgaacaggc tgatacttca 300
tgaaattcaa gacaaagaaa aaaacccaat tttattggac taaatagtca aaacaatggt 360
ttcataatth tctatttgaa aatgtgctga ttctttgaat gttttattct ccagatttat 420
gcactttttt tcttcagcaa ttggtaaagt atacttttgt aaacaaaaat tgaaacatth 480
gcttttgctc cctaagtgcc ccagaattgg ga 512

<210> 404
<211> 229
<212> DNA
<213> Homo sapiens

<400> 404
caccctattc aaactcaagc acagtatgcc tccccagtct ttatgcagcc tgtatataat 60
cctcaccaac agtactcggc ctatagtatt gtgcctcagt cttgggtctcc aaatcctaca 120
ccttactttg aaacaccact ggctcccttt cccaatggta gttttgtgaa tggctttaat 180
tcgccaggat cttataaaac aaatgctgct gctatgaata tgggtcgcac 229

<210> 405
<211> 495
<212> DNA
<213> Homo sapiens

<400> 405
acagctcagg ttttatcacc gactgggaat agacaacctc aatgctgaac cgcactggag 60
aaaaggggca aggtaccctt gctgaggtgt atgggctgcc atctcaggct gtcttgagga 120
cctgggctcc ctctgctact ccaggaaaat gggctcctga cacagcagtc tgccaccaca 180
gccccaggag ggtgtcaaca ccagcaaatg ctgtatttgc agcatgtcca agatgaccct 240
tctcccctac ctctacctag ccactggcag ggaggggaga cagtgggtgat agcagcagca 300
ctctagggcat ggtgaacgcc tgggaccaag ccatgtggcg ttttttattt tgcctttctg 360
gaagactcaa gatatgtctc ttcattctct ctcagtattt gtttactttg gtttttttgt 420

342-42PCT.txt

ttttaatctc agagagaggt gtgttttagtg ggcacaagct gtaatatcca gcaaaaacttt 480
gtcgactggc actgt 495

<210> 406
<211> 472
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)..(77)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (79)..(79)
<223> n is a, c, g, t or u

<400> 406
ttcctcttgc tgagaaaacc caccctgctc acctaaaccc tggccttgcc tggtaattcc 60
atccatgcgc ctggaangnc ccagacatca aggctctgag gggccaggca cggggagAAC 120
ccagcagtgc cctgccctgc agtctgagct accagattcc ttgtgaagat aatttgagga 180
ccatgactca cccaaccaca tttcctgggg cctcaaattg aaaattcagg atgggctttt 240
ctatatgact ggctgatata caactatgcc atgggtcttta catgccatga acattctttc 300
ctgccagagt tetaagaatc tgtgttctct gccttagacc ttctgcagat gagcccacag 360
gaagctccac gtgtagctga gctacatgca ccaggcctca gtttgcccca agtcccctgt 420
gtactctctc atggcctgtg gccaaagaaat gtattctctc actttggact ta 472

<210> 407
<211> 395
<212> DNA
<213> Homo sapiens

<400> 407
agcagatgga ccctactgga agtcagttgg attcagattt ctctcagcaa gatactcctt 60
gcctgataat tgaagattct cagcctgaaa gccagggttct agaggatgat tctggttctc 120
acttcagtat gctatctcga caccttccta atctccagac gcacaaagaa aatcctgtgt 180
tggatgttgt gtccaatcct gaacaaacag ctggagaaga acgaggagac ggtaatagtg 240
ggttcaatga acatttgaaa gaaaacaagg ttgcagaccc tgtggattct tctaacttgg 300
acacatgtgg ttccatcagt caggtcattg agcagttacc tcagccaaac aggacaagca 360
gtgttctggg aatgtcagtg gaatctgctc ctgct 395

<210> 408
<211> 397
<212> DNA

<213> Homo sapiens

<400> 408

```

attttcctca taaagcattg ctccagctaa tcttatctat tttctccag aatctccatc      60
cccttcccgt cagatacatc taaaactttt tttgtatctt tgtttttcct cgtgttgat      120
catcttcccta aaacatgttc tacttgtgaa aaccctaaga aattctctct gtcttattga      180
aattctatct ccactgtgaa gcattatcat ggtgtggcca tatatgatct atccctatct      240
gaagtcactg catttattcc ctgacctca tttgcaggtc cagtaccttg tacaagtttc      300
tttttgtgcc atattagact gtaagctcca agagggcagg gcccaagtct tatgaatttg      360
tgtctgcata gtgtctagta cttgtctgag gccca      397

```

<210> 409

<211> 48

<212> DNA

<213> Homo sapiens

<400> 409

```

aggacgtacc ttgtgagatg cgagccggcc aacagcttgc aagcatgc      48

```

<210> 410

<211> 459

<212> DNA

<213> Homo sapiens

<400> 410

```

gcaagtcgcg tgatttctac cacacctgct actgcctgag cggcctgtcc atagcccagc      60
acttcggcag cggagccatg ttgcatgatg tggctctggg tgtgcccga aacgctctgc      120
agcccactca cccagtgtac aacattggac cagacaaggt gatccaggcc actacatact      180
ttctacagaa gccagtccca ggttttgagg agcttaagga tgagacatcg gcagagcctg      240
caaccgacta gaggacctgg gtcccggcag ctctttgctc acccatctcc ccagtcagac      300
aaggtttata cgtttcaata catactgcat tctgtgctac acaagcctta gcctcagtgg      360
agctgtgggt ctcttggtac tttcttgtca aacaaaacca atggctctgg gtttgagaaa      420
cacagtggct ggttttaaaa ttctttccac acctgtcaa      459

```

<210> 411

<211> 275

<212> DNA

<213> Homo sapiens

<400> 411

```

agagggcaag gggctggatg caggcagaga atgactttaa gaaaagattc tatgatccct      60
tccttttagta tggagctcga ttttccagct ggcgcttggg gagaaagtac ttgaagaact      120
catagacaga ccaagaaatg gcggtggagg gcatctggta gatgacacgc gcctggatgc      180
ctttgaagta gccggccagg ccgttgagct ggtacaccgt ccggaaggca ttggccatac      240

```

ccgacagccg gccgctgatg ttggccagcg agagg 275

<210> 412
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 412
 gcagataagc tccgtctgca gttccaggcc agccagaaac tcctgtgtcc acatagagct 60
 gacgtgagaa atatctttca gcccaggaga gaggggtcct gatcttaacc ctttcctggg 120
 tctcagacaa ctcagaaggt tgggggggata ccagagaggt ggtggaatag gaccgcccc 180
 tccttacttg tgggatcaaa tgctgtaatg gtggaggtgt gggcagagga gggaggcaag 240
 tgtcctttga aagttgtgag agctcagagt ttctgggggtc ctcattagga gccccatcc 300
 ctgtgttccc caagaattca gagaacagca ctggggctgg aatgatcttt aatgggcccc 360
 aggccaacag gcatatgcct cactactgcc tggagaaggg agagattcag gtcctccagc 420
 agcctccctc acccagtatg ttttacagat tacgggggga ccgggtgagc cagtgacccc 480
 ctgcagcccc cagcttcagg cctcagtgtc tgccagtcaa gcttcacagg cattgt 536

<210> 413
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (121)..(121)
 <223> n is a, c, g, t or u

<400> 413
 ttaatttctg tgaagagtgc ccctggtggt tcattcttggc ctgttttggat gagaatgtta 60
 tcntttgtgt ctggataacg cgtcagcttc ttaaagtaca tataaagata ttctgtcacc 120
 nccccacatg cacacacttt taaaatctat ttttattctc ttgctaaagt tgtaattatg 180
 tcaagaattt tccagctcta actgccttct tagtacatgt ctttctgcct ttgaagcata 240
 tgagtttgcc aaagtcattc tcccctaatag acatattgtg gactta 286

<210> 414
 <211> 166
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (27)..(27)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (74)..(74)

<223> n is a, c, g, t or u

<400> 414

gaaagacgga ggaaacaatc aaaatcncca ttctattgct ttgacacctt tactaggtga 60

attggtggca ttcncaaagc taatagggac gtttatatca agaaacattt ctgtatatat 120

tggtgaattt tagttgtaca tatactttgt atgtttttgt cttctt 166

<210> 415

<211> 552

<212> DNA

<213> Homo sapiens

<400> 415

tgcaggctag gggaggagcc acccccgcctt ccctattgtg accaggccta tggggaggag 60

ctgtccatac gccaccgtga gacctgggcc tggctctcaa ggacagacac cgcttggcct 120

gggtgctccag ggggtgaagca ggccagaatc ctggggggagc tgctcctggt ttgagctgca 180

ttcaggaagt gcgggacatg gtaggggagg caaaaagcct tgggcactac cctccctgtg 240

gagctgttcg gtgtccgtcg agctagccac accctgacac catgttcaag ggtaccggaa 300

gagaaggggtg tctgccccca acctcccctg tgggtgtcac tggccagatg tcatgaggga 360

agcaggcctt gtgagtggac actgaccatg agtccctggg gggagtgatc ccccaggcat 420

cgtgtgccat gttgcacttc tgcccaggca gcagggtggg tgggtaccat gggtgccac 480

ccctccacca catggggccc caaagcactg caggccaagc agggcaaccc cacacccttg 540

acataaaagc at 552

<210> 416

<211> 524

<212> DNA

<213> Homo sapiens

<400> 416

acgccgcgcg aaggtgatga gctcgcccgg ctgccctacc tacggacctg gttccgcacc 60

cgcagcgcca tcatcctgca cctcagcaac ggcagcgtgc agatcaactt cttccaggat 120

cacaccaagc tcatcttggtg cccactgatg gcagccgtga cctacatcga cgagaagcgg 180

gacttccgca cataccgcct gagtctcctg gaggagtacg gctgctgcaa ggagctggcc 240

agccgggtcc gctacgcccc cactatgggtg gacaagctgc tgagctcacg ctcggccagc 300

aaccgtctca aggctccta atagctgccc tcccctccgg actggtgccc tcctcactcc 360

cacctgcac tggggcccat actggttggc tcccgcgggtg ccatgtctgc agtgtgcccc 420

ccagccccgg tggctgggca gagctgcac atccttgacg gtgggggttg ctgtataagt 480

tatattttgta catgttcggg tgtgggttct acagacttgt cccc 524

<210> 417
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 417
 aaatgactgc attcgtctct tttttaaggg tagagattaa actgtataga cagcataggg 60
 atgaaaggaa ccaagcgttt ctgtgggatt gagactggta cgtgtacgat gaacctgctg 120
 ctttgttttc tgagaagagg tttgaagaca ttttattaac agcttaattt ttctctttta 180
 ctccatagga acttattttt atagtaacat taacaacaag aataactaaga ctgtttggga 240
 attttaaaaa gctactagtg agaaaccaa tgatagggtg tagagcctga tgactccaaa 300
 caaagccatc acccgcatc ttctctcttc ttctgggtgt acagctcaa gggcccttca 360
 ccttcatgtc tgaaatgg 378

<210> 418
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 418
 agtatggaag ctgagaagag ttattggaat cccccccacc gttgacagag gaaggcaggg 60
 ggtgagaatt aactgcttga gggtaggaga gtctgagatg tggggggccct attccg 116

<210> 419
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 419
 cctgagccac cacgcagaag aggcactttc caagttgttt accaagaatt tacattaaaa 60
 taacaagcta ttgtttggct atacattgtt ctttgtatca catattccag gaactacagg 120
 aaaataatgg gtgaggcagc tagttag 147

<210> 420
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 420
 gaaattccat caatacatct agacagatgt ttgcttgtag tttttggtat ccaaacctt 60
 ttttccacac atcgcacaga tgcctttttt gtaggcacag ccctggcagt aatgagaacc 120
 tggttggtgc acagaacttt tacaaattct acaagtggag aacttattct ttccatatgg 180
 atcaaatctt gctttttttg aagtcaaagc tttattttca ttcagctttc ttccaccact 240
 ttctgtggta ttcttagcac cacctttcca tgtatctgga gtgataacag taccaagttt 300

cttttcacat 310

<210> 421
 <211> 154
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (68)..(68)
 <223> n is a, c, g, t or u

<400> 421
 agatataact ggtagagcac gtcaaagata tacagaaata accagagaaa agtttgaggc 60
 attaaaanaa gaaaatatgg acctaaacaa tatgaatcaa agccttacct ttgaactaaa 120
 cacaatgaaa caagcaatga aagaactaca gtta 154

<210> 422
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (92)..(92)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (264)..(264)
 <223> n is a, c, g, t or u

<400> 422
 tttttgtgca tgattacact ccactgacat cttccaagta ctgcatgtga ttgaataaga 60
 aacaagaaag tgaccacacc aaagcctccc tnggctggtg tacagggatc aggtccacag 120
 tgggtgcagat tcaaccacca cccagggagt gcttgcagac tctgcataga tgttgctgca 180
 tgcgtcccat gtgcctgtca gaatggcagt gtttaattct cttgaaagaa agttatttgc 240
 tcactatccc cagcctcaag gagnccaagg aagagtcatt cacatggaag gtccgggact 300
 ggtcagccac tctgactttt ctaccacatt aaattctcca ttacatctca ctattggtaa 360
 tggcttaagt gtaaagagcc atgatgtgta tattaagcta tgtgccacat atttattttt 420
 agactctcca cagcattcat gtca 444

<210> 423
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (357)..(357)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (454)..(454)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (462)..(462)
 <223> n is a, c, g, t or u

<400> 423
 gctttggact ggctcgcacg gaaaaccagg catttgatcc cgagaaaggg aacttcaaca 60
 ctttggttttg caggctctgc gtgctgctgc tgggtgtgtgc cgcccaggcc tggctcatgt 120
 ggcgcttcat ccaactccag ctgcggcact ggcgggaata ctggaatgag cagagtgcaa 180
 agcggagagt cccagccaca cccagactac cagccaggct catcaagagg gaatctggtt 240
 accatgaaaa tggagtgggtg aaggcagaga acggaacctc cccacggact aagaaactca 300
 agtctcccta aggccaaagt gctaagaaca ggaatcctct tgggtgggggc cgagcanggg 360
 gcaaggagcc caggccccct cctgcctcc tccttcctgc ctgtgatgct ccgtctcaaa 420
 cagccgaaac ctgtcttgca atgggggggag gggngcgttt cnctttcctt cttcttggct 480
 tcctcttatt cttccacaaa ccattctcaa 510

<210> 424
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 424
 acattgtgcc tcaggatttt gataataatt ctggatattg gaacagaata gaaatgtact 60
 gtcgagagct gacagaaagg tttgaagatg tttgggtggt atctgggcct ttgaccttac 120
 ctcagactag aggcgatgga aagaaaatag ttagttacca ggtgattggc gaggacaacg 180
 tggcagtccc c 191

<210> 425
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 425
 gcggtgtgga ccgaggaaca acttgaaga tctacctgca acacaacatt tgtgtcactg 60
 tacagttttg tggactgagc gaggaaaaaac aacaaataat ttaagttggc tagagcttct 120
 gtattttcaa agactgccac gtgccttagg aatactgttt tatctccata ctttggatga 180
 cttggtt 186

342-42PCT.txt

<210> 426
<211> 465
<212> DNA
<213> Homo sapiens

<400> 426
gttttggacc aacaagtgcc tcctttggtg aaggtgacac atcatgtgac ctcttcagtg 60
accactctac ggtgtcgggc cttgaactac tacccccaga acatcaccat gaagtggctg 120
aaggataagc agccaatgga tgccaaggag ttcgaacctt aagacgtatt gcccaatggg 180
gatgggacct accagggctg gataaccttg gctgtacccc ctggggaaga gcagagatat 240
acgtgccagg tggagcaccc aggcctggat cagcccctca ttgtgatctg ggagccctca 300
ccgtctggca ccctagtcac tggagtcac agtggaattg ctgtttttgt cgtcatcttg 360
ttcattggaa ttttgttcat aatattaagg aagaggcagg gttcaagagg agccatgggg 420
cactacgtct tagctgaacg tgagtgcac gcagcctgca gactc 465

<210> 427
<211> 480
<212> DNA
<213> Homo sapiens

<400> 427
tcctttgtgt agcattatca gcctcgggtc ggcctctggc acctcaccct tgccatggct 60
gacccacccc attccaaggc ggggtcacgg taccagcagc acttgggggtg aggcctccaa 120
agcttcctca gaattgtggc tgtgccacgc tggaccacag ggtccccctc aagcatctcg 180
gggcctatt ctctctgagc acctggaggg ctggactcag gcttgtgcca gggcctgact 240
tgggcctggg ggccctagaa cactcctcct cctgagccta ctgccaaacg tcctcagtgt 300
tgtctgcacc tgctccgact ccttcagccg cccattcag cgcccgctcc gtccagtgcc 360
cgccctgtgg ggccaaggcg gccgtgcctt actactctgt gtcttctgcc tcctctgagg 420
aatctggccc tgtctgacag tcccagaccc cccgttctct cctctttagt tgcagtagtt 480

<210> 428
<211> 533
<212> DNA
<213> Homo sapiens

<400> 428
ttcattcaca aacttccgct gtacctgcgt ctaaaaaggc ccaaaccgga gagagacctg 60
atgccggagc cccctcactg ttcttctcca ggaagtggct ggggtcgggg aacagatgaa 120
tatttcatcc ggaagccgcc aagtgatttt ctcttcccca aaccaatag gttccagcct 180
gaactgtctg cccctgatct gcggcgattt atcgatggc caaacggggc tgtggccctg 240
cttccggagc tacgggaggt cgtctcctct atcagctaca tcgctcgaca gctgcaggaa 300
caggaggacc acgatgcgct gaaggaggac tggcagtttg tggccatggt agtggaccgc 360

342-42PCT.txt

ctcttctgt ggactttcat catcttcacc agcgttgga ccctagtcat cttcctggac 420
gccacgtacc acttgcccccc tccagacccc tttccttgaa gactggaggg ttgagaccag 480
gccccctgcc agttgaagtg agagagtttg gtgatactgt caagccctat cct 533

<210> 429
<211> 486
<212> DNA
<213> Homo sapiens

<400> 429
gtgacctttc acgaacatgg gcatggctgc ggctccctcg tcatcagggtg catagcaagt 60
gaaagcaagt gttcacaacg gtgaaacttg agcgtcattt ttcttagtgt gccaaagagtt 120
cgatgttagt gtttccattg tattttctta cagtgtgcca ttctgttaga tactatcctt 180
ataattgatg agcaagacat actgaatgca tatttcgggtt tgtgtatcca tgcacctacg 240
tcagaaaaca agtattgtca ggtattctct ccatagaaca gcactatcct catctctccc 300
cagatgtgac tactgagggc agttctgagt gtttaatttc agactttttc ctctgcattt 360
acacacacac acacacacac acgcacacac acacaccaag taccagtata agcatctccc 420
atctgctttt cccattgcca tgcgtcctgg tcaagcccc ctcactctgt ttcttggtca 480
gcatgt 486

<210> 430
<211> 97
<212> DNA
<213> Homo sapiens

<400> 430
tattagttaa ttagtgattt cacagtatcc tttcgcaggc cgatccccac tccaaccgtt 60
ccctcagcaa ccccaggggt gtcagacggg gcaccct 97

<210> 431
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, t or u

<400> 431
gctgcctttg cactggcgaa gggaggggca ctggttatgt tgtttccatt cgacagtcct 60
tccaaaggct tccctccagc gccactancc aaatccagaa aagcgtcctc ctccagaagg 120
taccacaaaa cttttaaaac ctttaaaggc tcctccagtg tcagattcaa atccaacatt 180
tctgcgcttt gctttcttta tggctctatt cttcaagact tcctcactgg ccatggagaa 240
t 241

<210> 432
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 432
 tgagcctgtg cgtttttgcac actgggttgg tttgctgggg ctgcggtgac agcatatgcc 60
 gcgagctggg ctttaacaga gatgtgtgct ctcacagctt tgcaggcggg ggtctgagat 120
 caggggtgtcg cgggtggggg gtcactgctg aggccgtgag gggaaatctgc tcaggcctgt 180
 ccctggcttc tgggggctgc tgggtggtatt ttcagttcct tgggtgtgtgg atacttcgcc 240
 ccatctctgc cttcacctgt gtcctccctg tgtgggtgct ggtgtccaaa atttcccctt 300
 ttcgtagtga caccagctgt gttggattgg ggcccaccct gctccagcat ggcctaattct 360
 taactaatta catttgcaag gatcttatgt ccacaaaagt cacagtctga ggtgctgggg 420
 gttaggactt caatatataa attttgcggt tacacaattc aatccatgac agaatccaaa 480
 ggtttactct gggtataaaa acagtacaat aaaatattgt ttatagcctt ccctgta 537

<210> 433
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (186)..(186)
 <223> n is a, c, g, t or u

<400> 433
 gaaaaccggt tatgagacac aacttgaatt aaatgatgaa ctagaaaagc aaattnttta 60
 tctcaaggag aaagtggaaa aaatccatgg aaactcttca gatagactnt cttctattcg 120
 tgtctatgaa cgaatgccag tggaatcctt aaacacatta cttaaacagc tagaagaaga 180
 aaagangact cttgaaagtc aagtgaata ctatgcactt aaactggaac aagaatcaaa 240
 ggcttaccag aagatcaaca atgaacgccg tacataccta gctgaaatgt ctcaggggtc 300
 tggtttacat caagtttcta aaaggcaaca ggtggatcaa ctgcctagga tgcaa 355

<210> 434
 <211> 319

<212> DNA

<213> Homo sapiens

<400> 434

```

ggcaagaagc caggtaaggc atgcagtcctt tctgttcccc gttgggggag tggattaag      60
gaactgtgtc ttcaggatac agtgagctgt aaaaatagac aacaagaaca cggaaactat      120
ggtagacgaa tgggctgagg acacagttca tgaaagagaa atatactcaa gatagaagaa      180
cctgcttcat cttagtgggtg atttttgtaa aatgtaattt aaaatattcc ccgatgctgg      240
gagctaagta aaaaataaat aagtaaataa aatacaaaat tacatgtaca tttaaagtgt      300
ttttctctat caagtttat                                          319

```

<210> 435

<211> 511

<212> DNA

<213> Homo sapiens

<400> 435

```

cacgatgacc ccagacatga gatccatcac taataatagc tcagatcctt tcctcaatgg      60
agggccatat cattcgaggg agcagagcac tgacagtggc ctgggggtag ggtgctacag      120
tgtccccaca actccggagg acttcctcag caatgtggat gagatggata caggagaaaa      180
cgcaggacaa acacccatga acatcaatcc ccaacagacc cgtttccctg atttccttga      240
ctgtcttcca ggaacaaacg ttgacttagg aactttggaa tctgaagacc tgatccccct      300
cttcaatgat gtagagtctg ctctgaacaa aagtgaagccc tttctaacct ggctgtaatc      360
actaccattg taacttggat gtagccatga ccttacattt cctgggcctc ttggaaaaag      420
tgatggagca gagcaagtct gcagggtcac cacttcccg cccatgact cgtgctccct      480
cctttttatg ttgccagttt aatcattgcc t                                          511

```

<210> 436

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (89)..(89)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (91)..(92)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (96)..(98)

<223> n is a, c, g, t or u

<220>

<221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g, t or u

<400> 436
 taagatccag ggttccagga ctgccaccaa ctctgtcca gctgctctat ccagtgtccc 60
 gattcagcaa tgtcaaatcc ctccagcanc nntgcnnntn ccggatacga cagctcgtca 120
 ggatagatca catcccagat ctcccactgc ctaaacctct gatctcttat atccgaaagt 180
 tctactacta tgatcctcag gaagaggtat acctgtctct aaaggaagcg cagctcattt 240
 ccaaacagaa gcaagaggtg gaacctcca cgtagcgagg ggctccctgc tggtcaccac 300
 caagggcatt tggttgccaa gctccagctt tgaagaacca aattaagcta ccatgaaaag 360
 aagaggaaaa gtgagggaaac aggaagggtt ggattctctg tgcagagact ttggttcccc 420
 acgcagccct ggggcttgga agaagcacat gaccgtactc tgcgtggggc tccacctcac 480
 acccaccctt gggcatctta ggactggagg ggctc 515

<210> 437
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 437
 gctttgagga aaccactgtg caacttgaga tgtctgtggt tgtggggatg ttccatccct 60
 ccgttcagtt gtgaagacct ctgctctgcc ctacagcaacc agagcctcgt cactctggac 120
 ctgggtcaga atcccttggg gtctagtggga gtgaagatgc tgtttgaaac cttgacatgt 180
 tccagtggca ccctccggac actcagggtt aaaatcgatg actttaatga tgaactcaat 240
 aagctgctgg aagaaataga agaaaaaac ccacaactga ttattgatac tgagaaacat 300
 catccctggg cagaaaggcc ttcttctcat gacttcatga tctgaatccc ccgagtcac 360
 tcattctcca tgaagtcac gatcttccag gtgttggtga actgcctgtg actcctctcc 420
 tccccggccc ctacccctca gggataatga gttcattgct gggctagatg ttttagccat 480
 gattctgcc 489

<210> 438
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (275)..(275)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (284)..(285)
 <223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (293)..(294)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (303)..(304)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (313)..(314)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (322)..(323)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (332)..(333)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (350)..(351)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (369)..(370)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (389)..(389)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (408)..(408)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (446)..(446)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (523)..(523)

<223> n is a, c, g, t or u

<400> 438

```

agcgagaccc agactcgtac aacaaacacc tcttcgtgca cattgggcat gccaaccatt      60
cttacagtga cccattgctt gaatcagtgg acattcgtca gatttatgac aaatttcctg      120
aaaagaaagg tggcttaaag gaactgtttg gaaagggccc tcaaaatgcc ttcttcctcg      180
taaaattctg ggctgattta aactgcaata ttcaagatga tgctggggct ttttatggtg      240
taaccagtca gtacgagagt tctgaaaata tgacngtcac ctgnnccacc aanntttgct      300
ccnntgggaa gcnnntagta gnnaaantag anncgagta tgcaaggtn nagaatggcc      360
gatttgtann ccgaataaac cgctcncna tgtgtgaata tatgatcnac ttcacccaca      420
agctcanaca cttaccagag aaatanatga tgaacagtgt tttggaaaac ttcacaattt      480
tattggtggt aacaaacagg gatacacaag aaactctact ctngcatggc ctgtgtgttt      540
gaagtttcaa atagtgaaca cggagcacia catcatattt      580

```

<210> 439

<211> 581

<212> DNA

<213> Homo sapiens

<400> 439

```

gcacggacac ctatgaagac cagcagtgga gaccccccaa gccactggt gaaacagctg      60
agtgaagtat ttgaaactga agactctaaa tcaaatcttc cccagagcc tgttctgccc      120
ccagaggcac ctttatcttc tgaattggac ttgcctctgg gtaccagtt atctgttgag      180
gaacagatgc caccttgga ccagactgag ttcccctcca aacagggtgt ttccaaggag      240
gaagcaagac agcccacaga aacccctgtg gccagccaga gctccgacaa gccctcaagg      300
gaccctgaga ctcccagatc ttcaggttct atgcgcaata gatggaaaacc aaacagcagc      360
aaggtactag ggagatcccc cctcaccatc ctgcaggatg acaactcccc tggcacctg      420
aactacgac agggtaagcg gccttcaccc ctaagtgaat atgttagtga actaaaggaa      480
ggagccattc ttggaactgg acgacttctg aaaactggag gacgagcatg ggagcaaggc      540
caggaccatg acaaggaaaa tcagcacttt cccttggtgg a      581

```

<210> 440

<211> 449

<212> DNA

<213> Homo sapiens

<400> 440

```

ggcgataat tcagccctgt ttaaataatc ttgcctttca aattcttcaa gtaacatggg      60

```

342-42PCT.txt

aagtattctt gaaatgtcac attttctgcc tccctctaa gtatgctttc tgaagaagtc	120
agggaaagtt agagtctgtg gcctgaggtg tctgctctgg gtggcgatag tgggcacctc	180
aggcaggtcg gtgacgttta gcacaggtgc cagggctcct gcctgctcct cctgtgtag	240
ctctgtgaag ttcatttagg aatTTTTTTT tccatgacag ttaagaaat aatcctaatt	300
gttttttctt attacctaag caatatatTT ttattatagc aacctcagaa aagaaaaata	360
aaaggataat ttaaaaaact cattcatagt ctcagttacc cagataacct cggttggtcac	420
cttgagtagt cttgtttagt tccctttac	449

<210> 441
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 441	
agcagaggct catccgggag cagatacgcc aggagcgtga ccagagggtg agaggaaagg	60
cagaaaaatac tgaaggccaa ggaacccccca aactaaagct aaaatggaag tgcaagaagg	120
aggatgagtc aaaagggtggc tactccaaag acgtcctcct acggcttttg cagaagtatg	180
gtgagggttct caacctgggtg ctttccagta agaagccagg cactgctgtg gtggagtttg	240
caaccgtcaa ggcagcggag ctggctgtcc agaatgaagt tggcctgggtg gataaccctc	300
tgaagatttc ctggttggag ggacagcccc aggatgccgt gggccgcagc cactcaggac	360
tgtcaaaggg ctcagtgtgtg tcagagaggg actacgagag cctcgtcatg atgcgcatgc	420
gccaggcggc cgagcggcaa cagctgatcg cacggat	457

<210> 442
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 442	
aaggctatta acgacgcgat ttcacaaagt cggcagagtt ctgcgggaaa tcccctggaa	60
agactcaatt aaagagcagt gaagagagtg cagatcccgt cactggaagt tcggaaaatg	120
cagtgtcatc ttcagaactg atgtcccaga ctcccagtga agttctgggt accaacgaga	180
atgagaaact gagccctaca agtaatacct catatagttt agaaaaaatc tccagtctgg	240
cccctcctag catggagtac tgcgtttttac tcttctgtgt ttgtatttgt ggttttgaat	300
caaccagcaa agaaaacctc ttggatcata tgaaagagca cgagggtgaa attgtaaaca	360
tcatcctgaa taaggaccac aatacagctc taaacacaaa ttaggtggaa taatgactcg	420
agcaggaaag cagtagaaga ggattccttc accacagttt cacctttacg ctgtcagaca	480
acttcctgcc acagaaga	498

<210> 443

<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (73)..(73)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (269)..(269)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (320)..(320)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (362)..(362)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (370)..(370)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (390)..(390)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (398)..(398)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (419)..(420)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (429)..(429)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (438)..(438)
<223> n is a, c, g, t or u

342-42PCT.txt

<400> 443
caaccgagag ggccggcagg agcttgaaat cattattgga gatgaacaca tttcttttac 60
aacatcaaaa atnggttccc ttattgatgt cagtcaatcc aaggatccag aaggcttatg 120
agtattttat tatectgtcc aggaccctga agtgtttggg cttcagtcctt actggattac 180
acttcaagat taaaccaatc taaactgaat attgatgtgg acatgggggg gtggggagtag 240
ttntnaatta ccattatcaa gaacatttng tgtcagggca gtatatTTTT ataaactata 300
tatgattatc ttttaataaan tatgtgataa aatttaaaaa aagcaaaaaca aaacttctag 360
angaataccn tcaaaacctt ggtgagggan attccttanac agcacaaaaa tcattagggn 420
aagatcaant ttaacatngt caaattaatc aatgacttct cttcctcaaa agacat 476

<210> 444
<211> 133
<212> DNA
<213> Homo sapiens

<400> 444
ttccagagct acccagacca tatggtgcac ccacagatcc agctgcagct ggtccttttag 60
gtccatgggg atccatgtct tctggacctt gggcgccagg aatgggaggg cagtatccta 120
cccctaatat gcc 133

<210> 445
<211> 353
<212> DNA
<213> Homo sapiens

<400> 445
cgccgctgcg aattctcgga caaaactgtc aacagcccgg gcgcgccttt tggctctgcg 60
ggtcctctta tttatgcaaa gccgacctat gctacagccc cccaaccccc gacctggggt 120
agggaggaag aggggtgccg ggaagggagt ccgccctgtc caggcactag aggctccctt 180
gacgtttggc agatgaaaaa caactaagcc tttttgaggt gtagagattc tcagggtccag 240
gcggttaaaaa ataatggtca aaagaataat acaaaaatag taaaggtctt gaagaatgcc 300
agcgaagcaa ttctttttta tttgaggaca cttgtctggt gtactttttc atg 353

<210> 446
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (275)..(278)
<223> n is a, c, g, t or u

<400> 446
gaggaagata tcctggctgg cactctttca gttgacagag agtgacctca ggctggggcg 60

342-42PCT.txt

gtcctcctc	cgtgtggccc	cggatcagca	caccaggctg	ctgcctttcg	cttttttacag	120
tcttctctcc	tactttccatg	aagacgcggc	catcagggaa	gaggccttcc	tgcattgttg	180
tgtggacatg	tacttgaagc	tgggtccagct	cttcgtggct	ggggatacaa	gcacagtttc	240
acctccagct	ggcaggagcc	tggagctcaa	gggtnnnnca	gggcaacccc	gtggaactga	300
taacaaaagc	tcgtcttttt	ctgctgcagt	taatacctcg	gtgcccga	aagagcttct	360
cacacgtggc	agagctgctg	gctgatcgtg	gggactgcga	cccagagggtg	agcgcc	416

<210> 447
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 447						
gtcctccaca	tgtgtggtgt	gtactctgct	aatggagaga	tgtttaaact	gagagctgct	60
gatgcaaaag	agaaacaatt	ctgggtgact	cagcttcgag	cttgtgccaa	ataccacatg	120
gaaatgaatt	ctaagagtgc	tccaagctcc	cgaagccgaa	gtctcacttt	gctcccacat	180
ggaacaccca	attctgcgtc	tccctgtagc	cagagacacc	tcagtgtggg	ggcccccggt	240
gttgtcacia	tcacgcata	caagtcgcct	gcagccgccc	gaagagccaa	gagtcagtat	300
tccggccagc	ttcacgaagt	cagagaggta	cacactctcc	tgacagagga	aagctgtttg	360
ctgcactggg	ttactggata	gattaactgg	gttgaggctg	tgtaattta		409

<210> 448
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 448						
gaggggcaca	tgcaagtcac	caaagtggga	agccttcacc	aaggccacac	ccaaagtcta	60
ctgattgtct	gtccaaagtt	cgttgattcc	tggccatgaa	caagcacaat	agaaaaagac	120
acagggctct	agtggctaca	agtcaatgtg	aattggcaca	tgggtctagca	gtttttaa	180
ctgacagtag	agtatggcaa	tgggcaaggg	ccaagaagtc	ctgagatggg	aggtcagcgc	240
tctaactggg	ctcagtggag	gtctgtgacc	agtgtctgga	cactagctac	aggggaccgg	300
gcagaggatt	ctgggc					316

<210> 449
 <211> 473
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (241)..(241)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (341)..(341)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (384)..(385)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (420)..(420)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (430)..(430)
 <223> n is a, c, g, t or u

<400> 449
 gcacttttagt gattgctttt attacattag ttaagatgtc ttgagagacc atctcctatc 60
 ttttattttca ttcatactct ccgccctttt tgtcctagag tgagagtttg gaagggtgtcc 120
 aaatttaatg tagacattat cttttggctc tgaagaagca aacatgacta gagacgcacc 180
 ttgctgcagt gtccagaagc ggccctgtgcg ttcccttcag tactgcagcg ccacccagtg 240
 naaggacact cttggctcgt ttgggctcaa ggcaccgcag cctgtcagcc aacattgcct 300
 tgcatttgta ccttattgat ctttgcccat ggaagtctca nagatctttc gttgggtgtt 360
 tctctgagct ttgttactga aatnngcctc gtggggagca tcagagaagg ccaggangan 420
 tgggtgtntn ccctagactc tgtaaccacc tctctgtctt tgtccttcct gag 473

<210> 450
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (363)..(363)
 <223> n is a, c, g, t or u

<400> 450
 gggaagtagg tgatgccagc cctcaagtct gtcttcagcc agggacttga gaagttatat 60
 tgggcagtgg ctccaatctg tggaccagta tttcagcttt ccctgaagat caggcagggt 120

342-42PCT.txt

gccattcatt gtctttctct cctagccccc tcaggaaaga aggactatat ttgtactgta 180
ccctaggggt tctggaaggg aaaacatgga atcaggattc tatagactga taggccctat 240
ccacaagggc catgactggg aaaaggatat ggagcagaag gagaattggg atttttaggg 300
gcagctacgc tcaccctaaa cttttggtgg cctggggcat gtcttgaggc ccagactgtt 360
aancaggctc tgctggcctg tttactcgtc accacctctg cacctgctgt cttgagactc 420
catccagccc caggcacgcc acctgctcct gagcctccac tatctccctg tgacgggtga 480
acttcgtgta ctgtgtctcg ggtccatata tg 512

<210> 451
<211> 397
<212> DNA
<213> Homo sapiens

<400> 451
gtgaacattt caaccagcct tatagctgtt ctcacatca ccttctgcat tgtgaccgtg 60
cttgaagggt aggtctctcac caaagggggtg ctgtgggcag tctttctgct cgcaggggtc 120
gccctcctct gtgccgtggt cacggggtgc atctggaggc agcccgagag caagaccaag 180
ctctcattta aggttccctt cctgccagtg cccccatcc tgagcatctt cgtgaacgtc 240
tatctcatga tgcagctgga ccagggcacc tgggtccggt ttgctgtgtg gatgctgata 300
ggcttcatca tctactttgg ctatggcctg tggcacagcg aggaggcgtc cctggatgcc 360
gaccaagcaa ggactcctga cggcaacttg gaccagt 397

<210> 452
<211> 426
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, t or u

<400> 452
gactgtaggt gcgtgggaga aactttgcag gntggggacc cggcggctgc tggccggtag 60
tgactggtgg gcgcgctcga ggactccaag gggcgcagcc cgggggcaga cccttgggtc 120
gggcggggat cttacgttc ccttaccgc ccccttttgt ctttcacctc agccccgccc 180
gctgctgtgg gagcggcggc cgtccctctc ctggaggtcg tctcctggca tcctcggggc 240
cgcaggaagg aagaggaggc agcggccgga gccctggtgg gcggcctgag gtgagagccc 300
gaccggcccc tttgggaata tggcgaccgg tggctaccgg accagcagcg gcctcggcgg 360
cagcaccaca gacttcctgg aggagtggaa ggcgaaacgc gagaagatgc gcgccaagca 420
gaaccc 426

<210> 453
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 453
 ctaaagaaag tacacacact ctctcgctct ctctcggctct tataaaaactc gttggtgtct 60
 tataaaacaa acagtataa tctcaagtta gaaaacagta ggtcctgaga accataagaa 120
 aaatgactgg tgtgatgttg agtaacaagt tggtagagtt acttttagcta tttattaact 180
 tgctcatctc atagaacatt ttaatagatt tttcacacac ctcatatta aaaaaaaca 240
 aacatgctgg tgtcttgggt acccattatt cctctgtacc tgaattcagg ttgggttttc 300
 tatttgaaa agactttata aatgttggct taaaagagg ttgagcacca gaatctcaga 360
 atttaccacc aaagaactca tcca 384

<210> 454
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 454
 agcataatga agcctgcatg tgcccagctt caataattac caatatcttg ccagttttgt 60
 ttcgtttctc ctttgattct ctgtattgag caagtcttag acatcatacg tttcccgcgt 120
 aagtacctta ttctacatca ttaaccagta aggacttttt aattaaccac aataccacta 180
 tcacacctaa taatagtaat tccttatgga tcttttcttt agacctattt ttgaaggcat 240
 aaaagcagtt gagtttctgg agaatttttg gatggtgatt aatgacttga ctggctgctc 300
 ttcccagagc tgtggcagct ctccccctt agaagatggg gtttgtattg gcgcaccaag 360
 atctccaaca gccagtgtgt gtttcccatt tctgtaggt tccatca 407

<210> 455
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 455
 tagtcagagt gacccatgta tctgggaaga ctctagtctg gactgtggcc cagcttgggg 60
 acctgtgtg ctcagatcat cttcaggaag gaaaaggcat cctggagaca ggagtccatt 120
 cactcctctg ctctctaccc actcatttgc ttgccaaact tagctttgcc agtgatagtc 180
 aatattaaag tgtacttttt tcccctttaa tccaatatag ttg 223

<210> 456
 <211> 160
 <212> DNA
 <213> Homo sapiens

342-42PCT.txt

<400> 456
tataattata accttaccgc atggacagtt ttgaatccta tgctaattgg ggtaattaag 60
tcaattatatt catatgttat gttctcttca tgtgcatttt tcaatgatat attatgttcc 120
atttgtttgg aatgtgaatg ttcaattact tttccctata 160

<210> 457
<211> 465
<212> DNA
<213> Homo sapiens

<400> 457
ccacatccat ggcctaggag ctactgggca ggttcccggc cacacatctg gtgggctgtt 60
ttgttttttt ttttctctt cccccagatg tcttgacggg atcactgggg ctctttgtga 120
gtgaggggtgg ccaaactacc gccggaggag atgggggtctc agagcgagag ctgcggaggg 180
ggaggggaag aagaaggcct cacttttgct gctgcggggc ccacacagcc gctgctactt 240
tgggggggtgg ggaaggggcc aagctgcaga cacacacagt cattcatttc tgtccacacc 300
cctgtgggtg gcgggtgtgc gtgtgtgtgc ttgtgtgtgc gcacgtgtcg gcgctcacac 360
acacatgcta gccactgat gcaccagcc cagggctggc agtctttgca gcgtggggcc 420
gtctcaccct ggagcctgga gaggatctat gcttgtttgt ttttg 465

<210> 458
<211> 212
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (122)..(122)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, t or u

<400> 458
gtgccgctgg caccgggaa gacgctgggg gccggcgctg tagagccggg catgggctgg 60
gatgtgtttg gattccaatc cgggcctgac accagttcag tgacctcggg aagttcccca 120
ancctccggg cctgtttcct ccctctgaag tggcgacnag tagtagaacc gacctcgtag 180
gctcatcggg aggtcctgat gggagaaccc at 212

<210> 459
<211> 342
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> (161)..(162)
 <223> n is a, c, g, t or u

<400> 459
 gggtgtactc aagatgtttt cctggaaaaa ttcattctgc tttctgacca ggatttccag 60
 aaactctgac ccttctaaga ggtctgggtg gaattgtgat ggtgattctg ctagtagaca 120
 gtgtaacttc tgcgtctaca aaaagaggat aggccgtcac nnctcacatg gctttgcgtg 180
 aaagcccaat ggtactgtct ctatggcaga gatgaggaag gaacaccagc gtcctccaac 240
 tttcctgttc ttcccttggg ttaatggcca ctgtaaggaa acagttttct gccacgtgtg 300
 ggggtgatttg aatgtaaaat gcccaactct catagcaggc tg 342

<210> 460
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 460
 aaggggaaga tttgctgctg ctgccggggc aagttcccgc tgttctcgtg gccgcccagc 60
 tgtctcttct gcaagagagc cgtctgcact tcctgtagca taaagatgaa gatgccttct 120
 aagaaatttg gacacatccc tgtctacaca ctgggctttg agagtcctca gagggatatca 180
 gctgccaaaa ccgcgccaat ccagagaaga gacatctttc agtctctgca agggccacag 240
 tggcagagcg tggaggaggc gttccccccac atctactccc acggctgtgt cctgaaggat 300
 gtctgcagtg agtgcaccag ctttgtggca gacgtggtgc gttccagccg caagagcgtg 360
 gacgtcctca aactacgcc acgacgcagt cgccagaccc aatccctcta catccctaac 420
 accaggactc ttgacttcaa gtgacagccc cagggtggcca ggccctccagg aggcaccagg 480
 caggccctgt atcaggctag gacgctctga gctgtgcat 519

<210> 461
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 461
 tccccctct gaattttact gatgaagaaa ctgaggccac agagctaaag tgacttttcc 60
 caaggctgcc cagcgaggac gtgggacttc tcagacgtca ggagagtgat gtgaggagc 120
 tgtgtgacca tagaaagtga cgtgttaaaa accagcgctg ccctctttga aagccaggga 180
 gcatcattca ttagcctgc tgagaaga 208

<210> 462
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 462

342-42PCT.txt

ctcagcattt agtgaaggta attccaaaat actggtatca gtactcttat ttataagtgt	60
acggaatgca taacatgaac attagtcaaa gaacttttaa tataattcac tttttaagtgt	120
ttaaaattta aagggtcaagt aaaattgtaa atttgtataa tggaaacatt aagcgtcatt	180
atcatacaaa ttattagcag ataaccttaa taaaaataaa cgtttgccggg ttttttttga	240
gacaggggtct cgctttgtca cctaagctgg agtgcagtgc gcgatctcgg ctactgcaa	300
cttcgcctc ctgggatcaa gtgattctcc tgccttagcc tcctgagtat ctgggtttac	360
aggtgtgtac cgccacaccc gtctctacta aaaatacaaa aaacaaaaaa agattagctg	420
ggcgtggtgg cagggtgcctg tgggtcccagc tgctcgggag gctgaggcag gagaatagca	480
tggacctggg aggcggagct tgcagtgagc tgaaatggtg ccactgcact cc	532

<210> 463
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 463	
attatcgatc atgtctattg ctccccgtcc cttcgctgcg ttcagactgc acacaatatc	60
ttgaaagggt tacaacaaga aaatcacttg aagatccgtg tagagcccggt cttatttgag	120
tggacaaaat gggttgctgg gagcacatta cctgcatgga tacctccatc agagttagct	180
gcagccaacc tgagtgttga tacaacctac agacctcaca ttccaatcag caaattagtt	240
gtttcagaat cctatgatac ttatatcagt agaagtttcc aagtaacaaa agaaataata	300
agtgaatgta aaagtaaagg aaataacatc ctgattgtgg cccacgcac ttccttgaa	360
gcgtgtacct gccaaacttca gggcctgtca cctcagaact ccaaggactt cgtacaaatg	420
gtccgaaaga tcccatatct gggattttgt tcctgtgaag aattaggaga aactggaata	480
tggcagctga cagatccacc aatccttcct cttacccatg gaccaactgg gggcttcaac	540
tg	542

<210> 464
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (368)..(368)
 <223> n is a, c, g, t or u

<400> 464	
cagccccatg acagcgaagg gacctttctg tccccgcccc tgtccctgtg ctgggcccac	60
gtactcacc acgtactggg gcccggtcc cctgggcacc cagagcccc cagataggcc	120
gggtggaggag gtggaggagc tgtcccccca aaactactgg cctgtggtct ggactccagg	180

342-42PCT.txt

```

gccccatttc tgatgtcgcc aggtgtgcct gagcccatcg gggccaggcc tgaggaagtg      240
tttcttgga ggatgggatg acccctgtt cccaagagat ggcagcacag tggaggccat      300
ggtggaaaag gccctgccat ggggtccttg agggccagga cagcctgagg gagggatggt      360
ggccactncc cacaaggggc ctggtgggaa cgggtcccag gacagactca tagctagacc      420
ccgttggcgg cctctgtgtt gaaccagaac t                                     451

```

```

<210> 465
<211> 467
<212> DNA
<213> Homo sapiens

```

```

<400> 465
ggccccaggc agttttatga tgacacctgt gttgtcccag aaaaattcga tggagacatc      60
aaacaagagc caggaatgta tcgggaagga cccacatacc aacggcgagg atcacttcag      120
ctctggcagt ttttggtagc tcttctggat gaccgcgcaa attctcattt tattgcctgg      180
actggtcgag gcatggaatt taaactgatt gagcctgaag aggtggcccc acgttggggc      240
attcagaaaa acaggccagc tatgaactat gataaactta gccgttcact ccgctattac      300
tatgagaaaag gaattatgca aaaggtggct ggagagagat atgtctacaa gtttgtgtgt      360
gatccagaag cccttttctc catggccttt ccagataatc agcgtccact gctgaagaca      420
gacatggaac gtcacatcaa cgaggaggac acagtgcctc tttctca                                     467

```

```

<210> 466
<211> 405
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (162)..(162)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (301)..(301)
<223> n is a, c, g, t or u

```

```

<400> 466
catacaccta ttaccatata ggggaagtcc ccaagctctc cggcctcaca gactctcacc      60
cacgggcaga gcattcttgg ctgattgagg ggaagttcca gcaatcagca caagtgttct      120
ttatacccca aatcactaaa acatatagag gggctctatgt cngtttcatc cataactcag      180
ccactggtgg aacaaatctc ataatacaaga ggatcatagt ccctggtaag tggatccctg      240
gagcattggc accatgtttt ccagtaaagt ctatctagct gtcagggaag agccacctgc      300
nctctgcaaa gggagagggg aaatcaaaac ccaggaaagg gaatatgttt ctgctccaaa      360
accaccagct tctgcctgtc cccttcactc tttctagatc attct                                     405

```

<210> 467
 <211> 110
 <212> DNA
 <213> Homo sapiens

<400> 467
 gaaagagcga gagaagggga aagacaagtc gggagaggcc ggtaggcgtg aggcgggcct 60
 gaagcggcag cgggcggcct tcgtccggcg agagctaggc cgaggacccg 110

<210> 468
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 468
 ctgcccccca gggctagtga agtggcctct tggataccag ctcaggggac actggcccca 60
 caggagttgt gagccctcta gggcaggggtg ggagccggga ccctcaggtg tagctgagct 120
 gtgacattgc tggtcacctt tgggtgctctt gcttttttga aagatgcttt tttttttttt 180
 aactgacgta gaatgaagaa ctgc 204

<210> 469
 <211> 139
 <212> DNA
 <213> Homo sapiens

<400> 469
 tcagatagga aggatggata tgtctttatc tacagcagaa gttagttacc ctttcatgag 60
 gtgattagtt tacttctagg tggaaaaaga gaggactttg aacttggtgt tgtcacagga 120
 gctgctctca tggacaaga 139

<210> 470
 <211> 115
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (81)..(81)
 <223> n is a, c, g, t or u

<400> 470
 ctcagagatt actcagccag acagagatat tccactgggtg cgaaagttac gttccattca 60
 cagcttttgag ctggaaaaaac ntctgaccct ggagccaaaag ccagacactg acaag 115

<210> 471
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 471

342-42PCT.txt

cagcgcctcc ggttataagt tgaagaaata agaccagttt ccaaataaat gacaaagagc	60
ttggtattcc tgcaggcatc agaatcacct ggaggaggag atgctgctgc tggtggtggc	120
ccagagacca cacattgaga accactgctc tagaaaacca tttgtctttg ctgatggaga	180
aacctggctc taatagaagg gcttgatatgt gtccaggaag tctagtgaat tcgaccatga	240
atccagacat ggccagtggc taaatcctgt gggaagacac tgtgcttctc tctgacccat	300
gaacactctg ctagtcaagc tctctgtcac aaagacaact tgaagagaca gagtggacct	360
cacagaagat accatcgtca ctcttaccac tgcaactgtg gtgaacagga ccactattat	420
tccttagatc aaaaggacag cacattcaac agcatcctca tggcatgcca gcaat	475

<210> 472
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 472	
cggcttggtt ggaccaccaa ccaaggggac cagcgcctcc tgcgcagcag cgccccctccc	60
tccctggctg gccctgctgt tagtcacaga ggccgcaagg ccaagacgtg agtgggctgc	120
ccctccacct aggctttcca ccgtggccac tccctccatg accaggcctg actctgttaa	180
ccactacttg aagtcttgag ggggaaagcc tccagggaga cataggggccc ttctcccttc	240
ttccaccaa agtagggggg aggcaactgg ttgtcatgga aatggggatc atcacagtcc	300
ccttccccct caccacacgt ggctgggcag tgttaagggg ggcaagatag tctctgtccc	360
cacccccctg tacttgattc ccagctgtc tttcacacag cccccaccc ttaggggaag	420
ggggaggggc ttctctacaa tgaggt	446

<210> 473
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 473	
gagacttggg ggtctgagct gtcccaagtc ctccggttct tcctcgggat tggcgggtcc	60
acttgccagg gctctggggg cagattttgtg gggacctcag cctgcaccct cttctcctct	120
ggcttccctc tctgaaatag ccgaactcca ggctgggctg agccaaagcc agagtggcca	180
cggcccaggg agggtagct ggtgcctgct ttgacgggccc aggccctgga gggcagagac	240
aatcacgggc ggtcctgcac agattcccag gccagggctg ggtcacagga aggaacaac	300
atcttcttga aaggggaaac gtctcccaga tcgctccctt ggctttgagg ccgaagctgc	360
tgtgactgtg tccccttact gagcgcaagc cacagcctgt cttgtcaggt ggaccctgta	420
aatacatcct ttttctgcta acc	443

<210> 474

342-42PCT.txt

<211> 465
<212> DNA
<213> Homo sapiens

<400> 474
cctaattcac acaaagactc cttgtggact ggctgtgccc ctgatgcagc ctgtggctgg 60
agtggccaaa taggagggag actgtggtag gggcagggag gcaacactgc tgtccacatg 120
acctccattt cccaaagtcc tctgctccag caactgccct tccaggtggg tgtgggacac 180
ctgggagaag gtctccaagg gaggggtgcag ccctcttgcc cgcacccctc cctgcttgca 240
cacttcccca tctttgatcc ttctgagctc cacctctggg ggctcctcct aggaaaccag 300
ctcgtgggct gggaatgggg gagagaaggg aaaagatccc caagaccccc tgggggtggga 360
tctgagctcc cacctccctt cccacctact gcactttccc ccttcccgcc ttccaaaacc 420
tgcttccttc agtttgtaaa gtcggtgatt atatttttgg gggct 465

<210> 475
<211> 443
<212> DNA
<213> Homo sapiens

<400> 475
agaatgcaaa gaggccgctt ccctaagagg cttggaggag ctgggctcta tcccacaccc 60
acccccaccc cccccccacc cagcctccag aagctggaac catttctccc gcaggcctga 120
gttctctaagg aaaccaccct accgggggtg aagggagggt caggggaagaa acccactctt 180
gctctacgag gagcaagtgc ctgccccctc ccagcagcca gccctgcca agttgcatta 240
tctttggcca aggctgggccc tgacgggttat gatttcagcc ctgggcctgc aggagaggct 300
gagaccagcc caccagcca gtggtcgagc actgccccgc cgccaaagtc tgcagaatgt 360
gagatgaggt tctcaaggtc acaggcccca gtcccagcct gggggctggc agaggccccc 420
atatactctg ctacagctcc tat 443

<210> 476
<211> 458
<212> DNA
<213> Homo sapiens

<400> 476
gactcagtgg gcactagaac gcctgaggct gcagctgggc tccccggggt ccttgccagag 60
gaaactcagt ctgctggagc aggaatccca gcagcaggag ctgcagatcc agggcttcga 120
gagtgcacct gccgagatcc gcgccgacaa acagaacctg gaggccattc tgcacagcct 180
gcccagagaac tgtgccagct ggcagtgagg gctgcccaga tccccggcac aactcccccc 240
acctgctgtt tacatgaccc aggggggtgca cactacccca cagggtgtgc catacagaca 300
ttccccggag ccggctgctg tgaactcgac cccgtgtgga tagtcacact ccctgccgat 360
tctgtctgtg gcttcttccc tgccagcagg actgagtgtg cgtacccagt tcacctggac 420

atgagtgcac actctcacc ctgcacatgc ataaacgg 458

<210> 477
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (342)..(342)
 <223> n is a, c, g, t or u

<400> 477
 agcatcctga accagctgtg ttttattatg cacagatatc gtaaaaaattt gactgccgca 60
 aagaaaaatg agttggtaca aaagacaaaa tcagagttca atttcagcag caagacttat 120
 caagaattta attactatgt gacatcaatg gttggttgcc tgtggacgct caaacccttt 180
 gcgaaaggaa tatatatattga ccctgaaatc ctgaaaaaaa ctggagtggc tgaatataaa 240
 aacagtttaa atgtagtcca tcatccttct ttcttgagtt acgctgtttc ctttttgcta 300
 caggaaagcc cagaagaaag gacagtaaac gtgagctcta tncggggaaa gaaatggagc 360
 tggatatttg actatttatt ttcacagggg ttacaaggct tgaaactttt tataagaagt 420
 agtgttcatc attcttccat tcccagagca gagggcataa actgcaacaa tcaat 475

<210> 478
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 478
 ctcgcagagt tccgtcgatc aggactggag gaagccacgt ttcaacagat atatatgcaa 60
 catgtggcac tgtgcagaat ggagggactg ccgtacccca ccatgtcaga gaccatggcc 120
 gtgtgttctc acctgggctc ctgtcgctc ctgcttgagg agcccagcag gaacgatctg 180
 ctccttcggg tgcggctcaa cgtcagccag gatgatgtgc tgtatgcgct gaaagacgag 240
 taaaggggct tcacaagtta aaagactggg gtcttgctgg gttttgtttt ttgagacagg 300
 gtcttgctct gtcgcccagg ctggagtgca gtggcacgat catggctcac tgcagccttg 360
 acttctcagg cttaggtgac cccccaacct catcctcca ggtggctgaa actacaggca 420
 catgccacca tgcccagctg attttttgta gagacagggc ttcaccatgt tgccaagcta 480
 gtctacaaag 490

<210> 479
 <211> 460
 <212> DNA
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> (72)..(77)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g, t or u

<400> 479
tttttttaggg actctcaacc tcctggcagg gttaaaggga gagtacttta aacccatata      60
ccagctgtgc tnnnnntct ctcactttgc cctgggtaag ctgctgtagg gtcagaagta      120
accctttctg tgccagttga gaatgagcct gtgtggtagc tgatgtcaga ggacaaagct      180
ctctgcaagg gctggacaca gagctgcaga gtcctgaaca tccctccttt caggctgcag      240
aaggagagagg caatgaagac aggtgctccg gaagcagcat cagggtcttt ggaggggact      300
ggtggggact caggctgggt gcagcctcca aacagagaac ggaacttagg tgtgtctcta      360
cagnctaggg ccagcctagc ccagcccaga acaaacacccc ttcagagcct aaccaaagaa      420
cataagctgc aaaatgtgca cccatatttt aagctgcttt      460

<210> 480
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)..(77)
<223> n is a, c, g, t or u

<400> 480
cctgtctcct acatttagcc aatgaaaaga atctaaaact ggaaggaaca gaggacctct      60
ctgatgttct tgtgagncaa ggagattgag ttcactatgg agaagtcagc agcaggaggc      120
ccatccctta ctcaagttgcc gggacatccc cagtctcggg ggaagaagat gccatgggct      180
tataccagg ctgtagccaa ctaccaacgt gcctgtttgt ttgttgctct ttccttctct      240
ccatcatagt ctgggtgccca gcgccctgaa gctccgtgct caactgatta aactttactg      300
ccctatgggtg accatctagg agagggggagg gcagaggggg tgaggggtact attctggatt      360
gagaaaacct atatccattc tttatatcaa tgtatagttt tagtctccta aattgatctg      420
ttattttcca aactattctc ttgtagaaaa tttccagtg ggcacttaat ggtgcccttg      480
aagaacttcc ta      492

<210> 481
<211> 501
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (197)..(197)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (247)..(247)
 <223> n is a, c, g, t or u

<400> 481
 ggagggagag gtccctgcaa ggtcccttcc cgggcagggg agggatggaa atgccgtcac 60
 agtagtaggg actggagcgt ctacaaggat ggaggggagc tactcaggcc taacgttagc 120
 tacaaggaaa aaggacgcct tccgtgacag atccttgagg tgtctgtgtc tgccccaagt 180
 ggccggcagt ggccttncc cggggcccaa ggcctgcagc cacctgctct aactcttgag 240
 tgggggngcg gggggggacc tgcaggggct cggggacagg acagcagcaa gaggcagggg 300
 ccgaggacgg aggccttccc gacagtgggg tgggtgttac attcaagtgt gaggtgaacc 360
 ctttggtggg gagggggccc ctgaagcctc ggcggggcca cccctccccg cggcgctctc 420
 gagtctaggg agaggggctg ctggctcggc ccggccggcc tggcttcaca gagggctctgc 480
 ggattgacac tggttctttt c 501

<210> 482
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (120)..(120)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (122)..(122)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (185)..(185)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (271)..(271)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (306)..(306)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature

<222> (313)..(313)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (352)..(354)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (357)..(357)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (359)..(359)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (361)..(362)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (365)..(365)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (367)..(367)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (371)..(371)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (373)..(374)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (376)..(377)
 <223> n is a, c, g, t or u

<400> 482
 gtgaggagct gttttcatct gtgtctgttg gagatcaaga tgattgctat tccctgttag 60
 atgatcagga cttcacttct tttgatttat ttcctgaggg gagtgtctgc agtgatgtcn 120
 cntcttctat tagcacttac tgggattggg cagatagcga gtttgaatgg cagttaccag 180
 gcagntgaca ttgccagtgg gagtgatgta ctttctgatg tcatacccag tattccaagt 240
 tcaccttgcc tgcttcctaa aaagaaaaac nagcaccgga atttagatga actcccttgg 300
 agtgcnatga canatgatga gcagggtggaa tatattgagt atctgagtcg gnnngtnant 360
 nntgngntgg ncnncntac tgtcctgtgg tctagtgggc agggacctgg gggccatcag 420
 tggctgtagg acttttttac ccctctgttc ctggcctaaa tatgtgatgg gtatgcttca 480

ccttaagtgg 490

<210> 483
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g, t or u

<400> 483
 ctttcacact gtggcagccc agtgaagcag actgggccat gaactctcct agccctgggg 60
 ccnagcctgt tccacaggca cccctgcagg aggcgctgcc aggagagcct tccatctcgg 120
 ggctctttga ggttccctcc ttctgggtgt tcttcaggct gagcagagag gctcctgtac 180
 cctctctctc ggaatctgaa gagccagatt taggccgggc aaaggggctc a 231

<210> 484
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 484
 ggtgctggaa aaactactat cttgtttaag ttaaaacagg atgaattcat gcagcccatt 60
 ccaacaattg gttttaacgt ggaaactgta gaataaaaa atctaaaatt cactatttgg 120
 gatgtaggtg gaaaacacaa attaagacca ttgtggaaac attattacct caatactcaa 180
 gctgttgtgt ttgttgtaga tagcagtcac agagacagaa ttagtgaagc acacagcgaa 240
 cttgcaaagt tgtaacgga aaaagaactc cgagatgctc tgctcctgat ttttgctaac 300
 aaacaggatg ttgctggagc actgtcagta gaagaaatca ctgaactact cagtctccat 360
 aaattatgct gtggccgtag ctggtatatt cagggctgtg atgctcgaag tggt 414

<210> 485
 <211> 508
 <212> DNA
 <213> Homo sapiens

<400> 485
 tcctctgtcc tctatattca gcatgttcct tgtcagctgc tgggccggcc ctgccttgcg 60
 ctagcagagc ctctcctggc agcttctcag gtctccctaa tggagacacc aggctactag 120
 gacactggct ggggccaccc cctcctgcct aatgcctcac cttacagctg gggaaactga 180
 ggcttggaat ggcccagagt caccaaggca aagttggggc tgggtcccagc ctgaggctcc 240
 agctgatgcc ctcagctccc agagaggggg tgccccatct agctgggtgc aggggtcact 300
 gcttgctcagc tcagggccct gtgcccgtt gctgttccc ctacatctgt gcctgcacat 360

ccagaactgc ctccttgccg ctgcctccag gaagcccacc ttgagccaga gtcaagggct 420
gcagcactgc ccgatagaac acgccccgcc tcaactgctgt tcttgcctta cagccaccat 480
gggaaagctg caacctttct gttttatt 508

<210> 486
<211> 555
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (400)..(401)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (410)..(410)
<223> n is a, c, g, t or u

<400> 486
tgtcaacttg tcatatacac ctccagggac caaaaacaaa agcagctcgg agtctgtgtt 60
gcctgattgg aaagtagaag ctctgggtgta tgctacagca cataacacat ttttactaaa 120
ggaaaaaagc taattatgtc catgcctctc gtaaaactgg ggggaacctt aaagagaaaag 180
aactaaggct taagttatct gtagtataat caattagaag taatgaatgg atgcatgtaa 240
aatggatgtg attttttttc aagcttattt tgaaatctta aaaatcaggt tacaccatag 300
ctactcaaaa gttttacaca cttaaaaactc agatcagtaa gtgttggtac ctttttagact 360
cataaaattg aataaaccat tgcaatgctt taaaaaaaaa naaaaaaaaa ggttttattg 420
ctatgatattt atggcagaca catccaagca aaaccatttt ccaaagtcag accttcctga 480
tgttatctga aatctgataa aatgacccta ctctctgctg tggttcattc ttgctccatg 540
ctgtccatat ttatg 555

<210> 487
<211> 541
<212> DNA
<213> Homo sapiens

<400> 487
gtggcactta ggcactatat tattgatatc tacaatggcc tcctggatgc acaaaagacc 60
ctgaagggct tttttgatca gcaaaaacaaa aacagaaaag caaaaaacag ttaatttttg 120
tttgggtcaag tttactcaac cagaccacct tgataccaac aatgctggag agcatttggc 180
aagagcaggg ccacaatgcc aaattccttg gaaaggtaga cttcctatga tactttcatg 240
gattggcaaa tttgtggggg ttttttggtg gtagcttttg agaatgtag tttctggctg 300
gggtagtgac ttacatctgt aatcccagca cttcggggagg cgaaggcagg tggattgctt 360
gtgcccagga gtttgagacc agcctgggta acatggtgag accccatctc tattttttata 420

342-42PCT.txt

aaattaaaaa aaaaaaaaaa gatagagaat gttactttcc tataaagcca tgatacccta	480
agtactaaga catgtctggt gttgtccttt ccttcataac atttctcata acccgtaatt	540
t	541

<210> 488
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (86)..(86)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (106)..(106)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (140)..(140)
 <223> n is a, c, g, t or u

<400> 488	
cagccctgac gtgaactcat tttattttgg ccaggaccca gaaaggagtc tactgctaag	60
atttcagcat gtcctgtggc tgagtnaatc agagtatatga cagganggta ccgggcacac	120
catcgcaatg ctccatcaan gctagtatgt tgtgttcttt ccttcatatc aagtcaactc	180
aagcttgctc tacttacctg gtgtacacag tctaagaact gtaagaagac tggagcaaaa	240
ccactcccct gacagttgag ggtcaagctg ctccctctgac tgaatttgtg accaaaagag	300
agccactctt tttcaaccaa catctggaag ccttcaagtg tcctataaaa gggatcactg	360
agtaactgaa ccagggatgt cacctagggc ataagcagga tggattgtca ttaattttag	420
ttctgaaaaa ggcctattac taagataaaa gcacttcctt ctgatgatag ctaattcaca	480
aatttacctg gacagcaaat ttgttcacta accattccag gat	523

<210> 489
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 489	
cggctgtacg actccataat gggcatgggg actcaagata aggtcctgat cagaatcatg	60
gtctcccaca atgaagtgga catgttgaaa attaggtctg aattcaagag aaagtatagc	120
aagtcacctgt actactatat ccagcaagac actaagggtg ctgtacctgt gtgggtggaga	180
tggctgaagt ccgacacagc acgagcgtcc agaaatgggtg ctccccatgc ttccagctaa	240
cagggtctaga aaacccgctt gtgactagca gtccctgtgg ctgttcctgt gaggatgacg	300

ttagca

306

<210> 490
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 490
 agaagattcc cttgaagcct tctccttcca aaaagtttcg gtctggctca tctttctctc 60
 ggcgagcagg ctccagtggc aactcctgca ttacttacca gccatcggtc tctggggaac 120
 acaaggcaca agtgacaaca aaggcagaag tggagccagg cgttcacctt 170

<210> 491
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 491
 tgggggtgac tgctgcttat taagatgatt cattttcattt ccaactcgtgg ttgtgatttt 60
 cacctttctca aaactgagtc agcaagagaa aatccttgtct tagaagggcc agataacact 120
 tcgctgtgag aacaggaggg ataatggatt ggagatggct atgtgtaaag cagccctgcc 180
 tgctgattta acacactttc aaaatagatg tgtcagtatt catttaaagc aagactctga 240
 tgacagaagg aaccttgaaa actacctgat attgaaatgg ttgtgccctt tatagccctt 300
 ttgcatctcc ttgactttcc agtcatgcct cctaaatcag aagaaaagct gcaaagaaaa 360
 tgttttgtgt ggttctgggc ttatttgaat aatgttcatg accacaggct gccatagcac 420
 aagtgagaat ttcagaccac aagggtttaa ggagcagtgc tctcttctct caaagctcag 480
 aacggtctct ggatccatgg tatcgtacac ccagtgtgga tattaacatt ct 532

<210> 492
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (232)..(232)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (259)..(259)
 <223> n is a, c, g, t or u

<400> 492
 aagggaagtt agcaccttcc tcttggaggt gctgaggatt aaatgagata atacgtggaa 60
 agcattagga atgtagcaca gttagcagat ggtggttggc tccctctgct tttccatcag 120
 tctgtggcct agtttaaagt gtgggaggaa ggtgtgaga tttaaggctg gttgtaaggg 180

342-42PCT.txt

atcagtcagt gtagttggaa aaattgtaag atgaagttat aggatataga cncaaaccctt	240
cctggaaggc cagaaagtnt gcatagcttc aataaaggat ttggctgaaa gcagcgtaat	300
cccccttacc ttgagttgat agcaatagag caaataacat gggaacgtgg gggagtttat	360
tgaatagctt gtttactcat gtggtcctaa gaccaaccctt tgattatcca cgggtgcatg	420
attgctctct actcgggtggc cggcaaatctt aattaccac aggtgtgttg actcaaagcc	480
tctgtcatta aatctatgct gaataaatgc cgtcaggcca gctagtcaag gtgcacaact	540
ctttttgtgc gtgggtgtgg	559

<210> 493
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 493	
gtaagtctca gtcctttaaa actcagaaaa aggtgtgttt tccaaattta atatttcctt	60
tctgtaagtc tcagtgtctg cactatctgt cttggagact taaaattatc ccttgaaagc	120
ataagaagta caccocaaac cagctttgtc ctccctgtcc tcttctagtt tacattttat	180
gtggttagta attttgtacc taaaagtatt tgaaattcta taaatttgga cttgacgtga	240
gcaaaagaaa atttctacgt aagcgaaact aataaaaacta cagtcac	287

<210> 494
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 494	
ctgtggcatc tataacctga gttcagtcac ttaataccga ggtcctgcgc tctgctgtgt	60
gcctggccct gggctgggca ctggggacat agcagtgacc gagacagaca ggctcacaag	120
gagacatacg acaaccaggt aaacatggca gacaagagca tgtcagatgc gctgtgaaga	180
acactgcggg gcccctccta ggaggtggca tgagttacat gcagacagag acgatccggg	240
ggcagacgga gttccatgtg gggcagtggc gagggcagac gctctggggc tgggatccct	300
gggagtgttc gagaagcacc gagaaggctt ctgtggctgg agccggccag ctgggggaga	360
tggggccagg gagatggcag gggcctctcc ctgtcccagg acccagagcc aaggaggct	420
ttaagcccag gaccaggggt ctgaaaacga aaagcactca cagtccttga acattg	476

<210> 495
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 495	
ggcaacctcc tggacaagga cgacctggcc atcccccccc ccgattacgg cgccgcctcc	60

342-42PCT.txt

cgggccttcc ccgcccagac ggccagcggc ttcaagcaga ggccctacag tgtggccgtg	120
cccgccttct ccagggcct ggatgactat ggagcgcggc ccatgagcag tggcagcggc	180
acgctggtgt ccacagtgtg aggacgctga ccccgggcag ccgctgctct gaagagcttc	240
cgcgccttcc ccttggctct gtccgttttc ctctcagct ctgctgggtt tgttcttggg	300
ttgtttttct tttccacctg ccccatgcct tttggttggt gaccccagac tctgtgatcc	360
cccagggctc atggtgctgc tccatccgcc cccctcccc tgtgtttacg cgccccatcc	420
tgtgtgtccc agccttttga gcagaaactg ccaggcagga cctgctgggc cgtgcggggc	480
accctcggcc tcaccctgca gtgtctgtgg cactcactgc ttttctaagg ctgcgcgtga	540
gc	542

<210> 496
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 496 gagaggtatt atcgagacat tgcaaagatg gcatccatca gcgaccagga catggatgcc	60
tacctgggtgg agcagtcccg cctccacgcc agcgacttca gcgtcctgag tgcgctcaac	120
gagctgtatt tctatgtcac caagtaccgc caggagattc tcacggctct ggaccgagat	180
gcctcttgtc ggaagcataa gttgcggcag aaactggaac agatcatcag cctcgtgtcc	240
agcgacagct aaggtggtgg aatcggtgag gagggggctt ctcagtcctg tgccgtcctc	300
ccatccaggg gagtggtgg ctcaagcctg ggtccccggg ctgagccctg gattgggtat	360
cgtggggcag gtcaccctgg ccacgatgcc cccggcacac ccaggcccc ttcattagt	420
ccttgctttg ggccctgc	438

<210> 497
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (248)..(251)
 <223> n is a, c, g, t or u

<400> 497 taagttctca tccaacattt ctctggcca tccattctcc atctttaaaag gcaatcacca	60
ttgccagttt cttctgtatc cttctggaaa tacaatatat tacataaatg acagcattct	120
atattctctc ttctatatct tacctatttc tgtgaataat ttatttttga cagcatttta	180
tgtatgaata ttcacaaatg tgcttcctta tttcagaggc tgaactaata aaaattttgt	240
ttattttnnn nttgaggcaa tatttttata tggtagccta atctttaata cttaacctgc	300

342-42PCT.txt

cagacttttaa ccgtaacaca ataatgtatt gccaaatagc accattcttc ttctctcact	360
ctcttgccat gggggctctt aaaaaaaaaa gtatacatct aaggtgtaca acatgctgt	419

<210> 498
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 498	
accagttttac ctaggccttg gactgccaaa tagctacaca actgcttaag ctggcctata	60
aggacagacc agagacaaag caagaagatc attggtccag actgagaaga aagttgccag	120
agggatgtct cactaaggc ctttgagcag ggattaatgc tgtcaccacc ttggtggaga	180
acaagaaagc tcagctggtg gtgactgcac gtgacaatgg atctcataga gctagctgtc	240
ttcttgcttg ccttgcacaa taaaatacaa agggaagaga agactgggat gtctagtcca	300
caggaagact tgcaccactg tcgccttcac acagattaac ttggcagaca aaggagcttt	360
ggctaagctg gtggaagcca tcagaaccaa tgacaatgac agacaggatg agatccactg	420
tcactagggg ggcaatatcc tgggtccaaa atctctggct ctcatcgcca agctgga	477

<210> 499
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 499	
tgagggaggg atgtgcctct ggccacgtgg ttacottgca gtgcacagcc tgtggtcata	60
gaaggggcta cagctcacgc atcgtgggtg gaaacatgtc cttgctctcg cagtggccct	120
ggcaggccag ccttcagttc cagggtacc acctgtgcgg gggctctgtc atcacgcccc	180
tgtggatcat cactgctgca cactgtgttt atgacttgta cctccccaag tcatggacca	240
tccaggtggg tctagtttcc ctgttggaac atccagcccc atcccacttg gtggagaaga	300
ttgtctacca cagcaagtac aagccaaaga ggctgggcaa tgacatcgcc cttatgaagc	360
tggccg	366

<210> 500
 <211> 537
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (193)..(193)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (210)..(210)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (379)..(379)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (443)..(444)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (446)..(446)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (448)..(451)
 <223> n is a, c, g, t or u

<400> 500
 gaacaatcgt cttttgaact tccagtaggc ccacagttgt tggttgttcc tcaaaacagg 60
 ttgtggctcc tggtgaataa gatgatccat taaaaactga acaagggtga ggagaaatag 120
 tgcttacggt gaaaaatcct taagtctttg tccccgttct ctaacttcct tacgttttcg 180
 tttatttagc tcnatcccca ctatctactn gaatttctca tatttaaacc aagatgggag 240
 actagggtcat taggaaaata ttaccgtcta caattttcct atactttgat ctgtctttta 300
 ttgtattgta agttgctgat ggacagtgat cattagaaac tgaattttgt ataatactag 360
 ttttatatga aactagatnt ttattgcgct cagggttatgt tccttttacc tccttcctta 420
 ataaagagac cacttgaaat aannanannn nttccaagta ctgtctgcac cttatccac 480
 ctctttccca tttatgagat agtgcaaaac cctagcacag tcttttccat ttagtaa 537

<210> 501
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 501
 aagtatctcc atacaaaata cggttgaatt acaaaaagaa aattgtaaca ttagcatgga 60
 caaacctggc aggtactcct taactctcct aagtaataaa aactgtaaaa tgcaaataag 120
 ccttcgatga catttactaa cctttactaa agtatcaatg atgacttggt tgtttaaaca 180
 gctgacattt gggcaatttg agtatgtcaa actcaataat actgggttttc atttgcaaga 240
 tccacttaaa acttaaggag gccaaaaaac atcatttaaa ataccctata aattataatc 300
 atacatatga tacgaaaaat atcctacttc ag 332

<210> 502
 <211> 375
 <212> DNA
 <213> Homo sapiens

342-42PCT.txt

<400> 502
agggttaactt ccagtgtcac aatgagcagt tctgtaagtg ggtgcctctc agcacatttc 60
tatgaatata ttatgtagat aggctgtatt gattttggta gcattgacac cttcttaggc 120
aattagttga agaaaactgc aaaatatttt cttatgtaat agctgtatag agcaatagca 180
atcaaagcat gagaaggcac taacgctggg atgaaagatg agattcagag gtgactgaga 240
atcatgtgag tgatggctgt atattttgtg taaaatatat gtgtgaaaat gaactaagag 300
tgagttactc agcactctca agaattatgc agattctgca tttttcttat gccgtgtgcc 360
taaaaaccta cttga 375

<210> 503
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, t or u

<400> 503
gggacaggat gaccttcccg aggaactcan tggcctgggg tagtttaaga agtaatgttc 60
tttcttttctt tctcttttcc ctacctctg ctaacccaac cagagatccc cttccttgct 120
gagaggggttg ggggcaggag gagatttggc agtgcctgca ggttgcctgg ccagggtggag 180
agggggaaaag aggaagggca ccgtgggtgt aagatgcctt tctcctccac ccatcgaaac 240
cagccacccc ttccctgtgc caccaagaca gccttttcca gtggccatcc taaggggaac 300
tcccaaattg gtgttgctgg tggacacaga tgctcccccc aatggaagcc ccaagctctg 360
aggatatgcgg gtagaggctt tggatagggtt ttcttctgct cccctctttt atagatctag 420
gctgcttggc tgctgtctt tctaggcagt ccccttagag gaaaaatg 468

<210> 504
<211> 484
<212> DNA
<213> Homo sapiens

<400> 504
acccaccac gtaccagatg gatgtgaacc ccgagggcaa atacagcttt ggtgccacct 60
gcgtgaagaa gtgtccccgt aattatgtgg tgacagatca cggtcgtgc gtccgagcct 120
gtggggccga cagctatgag atggaggaag acggcgtccg caagtgtgaa aagtgcgaag 180
ggccttgccg caaagtgtgt aacggaatag gtattgggtga atttaaagac tcactctcca 240
taaatgctac gaatattaaa cacttcaaaa actgcacctc catcagtggc gatctccaca 300
tcctgccggt ggcatttagg ggtgactcct tcacacatac tcctcctctg gatccacagg 360

342-42PCT.txt

aactggatat tctgaaaacc gtaaaggaaa tcacaggttt gagctgaatt atcacatgaa 420
 tataaatggg aaatcagtgt tttagagaga gaacttttcg acatatttcc tgttcccttg 480
 gaat 484

<210> 505
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (136)..(136)
 <223> n is a, c, g, t or u

<400> 505
 ctgcacagtc tccagtgtgg aaagctgtgg gaaaggaagg agcaggttct aggtcttcag 60
 gattttctgc atcttaaagc agctcatctc ctttgcctc ctagggagca ggggggccta 120
 gctttgggat cgctcnccta gcctcagaaa taattgttca agaaataaca tttctcacac 180
 aaaggataaa tgtttgaggg gatggatacc ccatcttcca tgatttgatt attacacatt 240
 gcatgcctgt atcaaaaatc tcatatatac acctact 277

<210> 506
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g, t or u

<400> 506
 gggggtgatt agtatgttgg gacaaacacg ctgttgctaa atggaaacac tgacctcaca 60
 gtgcacctc ctgccaacac acacacacac acacctctca cacatgcacg cttacacaca 120
 cacacacaca cacacacaca cacacacata cacacacaca cacacacgct ctctctctct 180
 ctctctctct ctctctgtca gtgtgttatc ggtgtggagc ggaggccgcg gaggctctc 240
 ggtccttcag caccctctcg cccgacgcac ccacgcccct cccccccga gagccgaacg 300
 ctccccgcac cgcccccggt cccttccctc ggccgggagc gacttctgca gctcgttctt 360
 ccgaatcgca ccagcaatgn cggccagccg tagagggagg aagagcccgg ggagcccgag 420
 catagcgtaa acggctctct gaccttaatt tcatcctgca tggcgaatct ctgccgtctc 480
 tctgaacgca gaagggctct agactggccg tctcc 515

<210> 507
 <211> 259
 <212> DNA

<213> Homo sapiens

<400> 507

```
ttcagtttat actcaaagcc ctgcagtttc ctgacagcac agagcacacc tgtcacgcga      60
gcaggatgaa gccacagaggc tgcctgggtga agtggggcggc gcgctggaaa atccacgtag    120
ctttgttccc tccacgggga gcgtgcaagg ccctctcgag cactacggga gcctcgcctt      180
ctgcacagac ttcggagcca ggtgctggag cggcagcaac tgaggggcgt ggatgtcttt      240
gcatggttcc catacgttt                                     259
```

<210> 508

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (189)..(189)

<223> n is a, c, g, t or u

<400> 508

```
atagcagtgg actgtcactc atcagtatct gcagttctgt ttaccaaagc ctgcttgcta      60
gagacgtttc agggcctcct tccctcaaag cgtccactgt acctccatct ggatacaatt    120
agctggctcc ccacttcctg gactgacggt aaccaccttt tccaatgacc ctgaagaaaa      180
catgcaatnt aagctgcttt aagagtaacc tacaactgag gacaaatttt ctatcaactc      240
ccagtacccc tctctgccgt ggctgatttg ttactggttt tcctt                      285
```

<210> 509

<211> 274

<212> DNA

<213> Homo sapiens

<400> 509

```
gaggtgcatg ggatcaatgg gacccaatgg ggccagactc tgaggatggg atggtagtag      60
tgaaggacat aggatggggg tagagtgtgg agactttttg aaatagtata gatgaatgcc     120
ctgagggggac tgtgaacaag ctctgccctt cttaggaaat caatggggaa tcaactaaat      180
taaataaaaa atgggggtcaa gattaagagg cagggtcacc cagggaatgg tttaggtcct      240
ggcaactctg aaggggttgg aagggctggc agga                                  274
```

<210> 510

<211> 470

<212> DNA

<213> Homo sapiens

<400> 510

```
gcgtggggtt ttgtatccag agctgtttgg atacagctgc tttgagctac aggacaaagg      60
ctgacagact cactgggaag ctcccacccc actcagggga cccactccc ctcacacacc      120
```

342-42PCT.txt

ccccccaca aggaaccctc aggccaccct ccacgaggtg tgactaacta tgcaataatc	180
caccccaggt gcagccccag ggcctgcgga ggcggtggca gactagagtt tagatgcccc	240
gagcccaggc agctattttca gcctcctggt tgggtggggtg gcacctgttt cccgggcaat	300
ttaacaatgt ctgaaaaggg actgtgagta atggctgtca cttgtcgggg gcccaagtgg	360
ggtgctctgg tctgaccgat gtgtctccca gaactattct gggggcccga caggtggggc	420
tgggaggaaa atgtttacat ttttaaaggc aacttggtat ttatatattca	470

<210> 511
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 511	
gaaaatgaat tccatgttct tgaaggaaaag actgtaacta tgtacattca tgatgttcct	60
ttggtgtgtg gtttctgtga gtaacaggta gatgtcattt ctggaaatgg tatgtttatg	120
tctatacatt gttttataaa actccatgga gaaagaaggg gtttacttgc tttgtatcac	180
atagcaataa cat	193

<210> 512
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 512	
ctggcccacc caggaacagt gagggcgacg agaactacat ggagttcctc gaggtgctga	60
ccgagggcct tgagcgggtg ctgttggtgc gcggtgggtg ccgtgaagtc atcaccatct	120
actcctgagc ccagtgtcat cttgtggcct ggagtcgagg tcttggccag gacataacaa	180
gctgtggtct ggggtaacag cctcttccca gcaccacct gccagccctg cttgcctggc	240
cctgtcctgg acccagcttt gctaggtctc cttggaaacc aggcctgggc ctcaaaatgg	300
agatggatcc caggtcttgt gggaccctgg gatgtttggg gactttacta tctagcacc	360
cagtaggcct gtccctggcca gagaagactg gtaggggccg agtgggggtt gaaggcagcc	420
ggcccggccc agcccaggag cgctatttat tg	452

<210> 513
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 513	
ttggaggcct ttgcagcggc ctacaaaggc acgcggccgt ttgccagtgc caacagcgtg	60
ctggacccca tcctcttcta cttcaccacag aagaagttcc gccggcgacc acatgagctc	120
ctacagaaac tcacagccaa atggcagagg cagggtcgct gagtcctcca ggtcctgggc	180
agccttcata tttgccattg tgtccggggc accaggagcc ccaccaaccc caaacatgc	240

342-42PCT.txt

ggagaattag agttcagctc agctgggcat ggagtttaaga tccctcacag gacccagaag 300
ctcaccaaaa actatttctt cagccccctt tctggcccag accctgtggg catggagatg 360
gacagacctg ggcttggtc ttgagaggtc ccagtcagcc atggagagct g 411

<210> 514
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (110)..(111)
<223> n is a, c, g, t or u

<400> 514
tcgtttctct gaacacacaa caccatcgt cctcttttat gttacttgaa atatcaaaag 60
aattattaca gctgaaaaca aatctatgta aatcggatct tgaaagagan naagctttct 120
ccagttttga aaggcgccat ttttaacttt gatcttgtaa tgacaaataa gaatgttgaa 180
tcggctggct tttttctatc ctaggtaatg tggactgtgg agctctgtgc tggtcacttt 240
caacctgaa cctgatgcta cttattttgc agttctaagt gcaaagtcgg cctggtggat 300
gcttccatt ataatattaa atttgcttct tcgtgaggtc acacctcaca tccccagtgt 360
cactttaata actagtgttt ttacatggg gggccatgac ccattagtgg actctgcatt 420
taa 423

<210> 515
<211> 230
<212> DNA
<213> Homo sapiens

<400> 515
ccctggcaag gcccgggaca ggaaggccta cacggtcctc ctatacggaa acggtccagg 60
ctatgtgctc aaggacggcg cccggccgga tgttaccgag agcgagagcg ggagccccga 120
gtatcggcag cagtcagcag tgcccctgga cgaagagacc cacgcaggcg aggacgtggc 180
ggtgttcgcg cgcgggccgc aggcgcacct ggttcacggc gtgcaggagc 230

<210> 516
<211> 426
<212> DNA
<213> Homo sapiens

<400> 516
atgaccttcg aatgcatagg cctttaatgg tgcagacaga ggaccagtat gttttcctca 60
atcagtgtgt tttggatatt gtcagatccc agaaagactc aaaagtagat cttatctacc 120
agaacacaac tgcaatgaca atctatgaaa accttgcgcc cgtgaccaca tttggaaaga 180

342-42PCT.txt

ccaatgggta catcgccata ttccaaagga ataacctttc tggagtgaac cagaccgtcg	240
caccacagc gaaggcacat gcccgatgtc gacatgtttt atatgctaata atcttaattc	300
tttgttctgt tttgtgagaa ctaattttga gggcatgaag ctgcatatca tagatgacaa	360
attggggctg tcgggggctg tggatgggtg gggagcaaata catctgcatt cctgatgacc	420
aatggg	426

<210> 517
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 517 gagcaagttg taaattgtct cttatcggac ttaaaagggt gcctggctct tacttagttg	60
attatctcct ggatctggaa agaaaggaag gaaaacaaaag gcggaagggg aatctctata	120
gaatgtggat ttttccaca agagactttg cagggcaatt tcaaggtatg gcacggaaat	180
atattttggg gttaaataatt tttttccttg tctcataatg ttatgccaga gtcagattga	240
aaagtaaata acaacatata gggtaaata aaacccatct gatgagaatg tgtggtttgt	300
agggcatgac ttcttagacc tcttaggtag gaatctgggt aagacagaat atcagactta	360
gtctcaatt cctaatacaa agttctgaga tccaaaatgc tccaaaatct aaaacatttt	420
ttagcacga cataatgcca caagtga	448

<210> 518
 <211> 148
 <212> DNA
 <213> Homo sapiens

<400> 518 aattaacacc aggaacagca ccttgaatat tcctttttca agttcctctt cctcaggaga	60
tattcaaggc cgaaacacaa gcccgaatgt ttctgtacag aaatccaatc ccatgaggat	120
tactgagagt catgccacca agggccac	148

<210> 519
 <211> 173
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (141)..(141)
 <223> n is a, c, g, t or u

<400> 519 gaaaatcaca actctaacca taatcatctg cactatatgc ctgcacatcag gtaatgtgtc	60
taaaataata agtaacattt agcatttctg accttatccc aaagtatttt aatagtattc	120
gttaatgttt taattaatgg nttttgtatt gcatctcctg gataacaaaag tag	173

<210> 520
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g, t or u

<400> 520
 catgagtgtg agctgatttg caccnancancc cctctgtaa gtgcctgctg tggnttttggg 60
 tttgattatt ccgttaatgc tgagtctggt tcacaaacga gattagcaga attaattatt 120
 gaagatgcag tatgctttat ggttttaata aactgttaa aaactaaaca aggaagttaa 180
 atatgttgat gattatcggg gactgctcac cacacagcat cctcaggcc gagtcagttg 240
 gccagtgac tccacatca caaactgcc tttcttggtc agaagaagca gaggaggcc 300
 ttctcatccc cagcgcgca gctgtggggc cccgtggtca cctggccaca tgggagtttg 360
 catactgagt ggttcattct ttccaatgtg ttgtgtcctt taatttacat ttatatttca 420
 ttgccctttc taatgatcag a 441

<210> 521
 <211> 488
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (456)..(456)
 <223> n is a, c, g, t or u

<400> 521
 tttgagttct gctctggcca atccccaagc tccacgtgtg cagccacccc gctctcctac 60
 ctcccagagg agcaggctac actcctgttc cttttagaga gagaaatatt gcggccgggc 120
 gcggtggttc acgtctgtaa tcccagcatt ttggcaggcc aagggttttg ccatgttcgt 180
 ggggctgggc tcaaactaat tacctcagat gatccgcca cctcggcctc ccaaagtgtc 240
 gggattacag ccgtcctggg ccgccggaca ccccgctgg ggccgatgcc caacagtgc 300
 atcgacttga gcaacctgga gcggctggag aagtaccgga gcttcgaccg ctaccggcgc 360

342-42PCT.txt

cgggcagagc aggaggcgca ggccccgcac tggtagcgga cctaccgaga gtatttcggg 420
gagaagacag agttccagct tctaaaatat ttgctnctaa aatcttgacc acctgacttt 480
ccggattg 488

<210> 522
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (117)..(119)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (228)..(228)
<223> n is a, c, g, t or u

<400> 522
aaaatggatc ctgtctttct tagccaagga ctggtctctt ttctccaatg tgtccctaac 60
agagtgggta ggctggctct tcccaccagt acaggaagat cattccttaa aagaaannnc 120
catatggctt ataagtgttc tttcctgtat gaagcccaag ctgtccactt ggagagacat 180
ctggccagcc ccccgttgtt ccagccatcc ccagttcagg catcaganat gtggtgaaga 240
agccatccta gatgccagc cccagctacc atctgatgca accacactgc tcaccccgag 300
caagaactgc ctgcaggagc ctagtattat cctctctca 339

<210> 523
<211> 396
<212> DNA
<213> Homo sapiens

<400> 523
gcggcagcaa ccggaaccgg aactcgtcgc ggccaccacc actgagcgct gcggggaggg 60
ggagcaagga ccggacgaga cgctacgcct gaaaacaggc ggcgggcgag ggacgaggct 120
taccacggca ccacgcgagt ggaaagggc gtctccgcta gcggcgggcc acaccagctc 180
accgaggggc ggcagcgcg gcgccggctg ccggaccgta ccatcccggg cgggtggagcc 240
gccgcggagg ggcgcgcgcg agccgaaggc gcacccggga ggcccaggta gcccgggggc 300
cgggtgctggg gcgcggggca ggcccggtc ccgctcgcac ccacccggag ccagccccct 360
ctgcggacac gacatcccca tggggacggg ggcgcg 396

<210> 524
<211> 194
<212> DNA
<213> Homo sapiens

342-42PCT.txt

<400> 524
 cccacaggt gttcctctgt gagctggtcg ggcggccggg gccggggccg ggcttcgctg 60
 ctccgtgcct tccacctccc tggcgggtgcg gggcctcagg gtgggccttg gaagctggaa 120
 acaccttttg aaacagccgc ctgaggcagc tgtggacaga agaccctgcc cagcagccaa 180
 gggagctggc ctct 194

<210> 525
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (424)..(430)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (443)..(443)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (445)..(445)
 <223> n is a, c, g, t or u

<400> 525
 caagggcacg aggcagtacc tttgctccat gcctttgctt ggactagtcc taccaccagc 60
 aattcctgca tttctgtggt tggcaagttt ctgctcagcc tccaaagcct taaccaagtg 120
 tcaccttttc tctgcagcat tttctgccac cctccccatt tcttccaata gaaccaggga 180
 tcttttaactt gggatccaga agcactgtgg acatattgcc atcacaacac ctttcatgtc 240
 acaatggcaa ggtttgcact gtcttggagg agaggaagga agccatattc atccctgaac 300
 cctcatctcc cagcactggg tgtaaaactg aaacaaaaat ggaaaacctt gatgaaattc 360
 attgttggtg tggctatggg gaaacagatt ttccatttct gatagtaaata gaaataggca 420
 ccannnnnnn aaaaaaaaaa aananattat taacactgaa aatgcacaca tctttcaacc 480
 cagcaatttt atttcttgct ttctagagga atgtttgccc atgtgc 526

<210> 526
 <211> 197
 <212> DNA
 <213> Homo sapiens

<400> 526
 cattattaat tataccaatc ctttcatata tgtagaaaaa atgtttgagt tggatcatctg 60
 tcttttattg aagatgcatt tcaaatatca aatatatttg aaagataaaa tagcatctgt 120
 gaaattgaat attattttat gtgcgcttgg ctatgcccta aaatgtcagt ttattgtccc 180
 taaagacgta tttattg 197

<210> 527
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 527
 ggatgaacgg gtgggctgaa gaacagctga atccaatagc ttggcagaac atgaagacag 60
 gtttggttttc cagattctta aaactccaaa cttgatatta ttacagacac aaagtaaagt 120
 gcacataaca agaggaagga gatcacagtt tgcaaaaactt ttatgtggac cttggtactg 180
 ggatcttgag atcctttgcc atggaggtgc atcttcttga gatgtttaca cagagaacag 240
 actaacagca gaaaagatat cagggttaca gtaaa 275

<210> 528
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (43)..(43)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (48)..(48)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> n is a, c, g, t or u

<400> 528
 aataaatcct gcgagttcac gcccgcgtag ttgcggccct gantttntnga ngcgactcct 60
 ttcgcatggg atctacaaaa ccgaactgcc ttaaagacct ctttcacacg gacgtgaagt 120
 cacagaactg acaaaatccc atcctgtcaa agtgcacggg tctttgaaat ctaacacaaa 180
 aagccataga aagattctct aaacaccctg tactaagagg aacacggaca gggcactgcg 240
 ttctgaagta gagggcaggg cactggccct tagacacgtc tcgctgtcac cgggctaaca 300
 acattggcaa gggcggcggc agcagcactg atattttgcag cccccaaggg ctctggcgaa 360
 accccctcta ttactctgta tcctgcctgc ttccaagatg aacctgttgc tgggaaagaa 420
 caggctaaat tagaaaaggg agtatTTTTgt caaagttgaa ggtgagtgat agcctgcccc 480
 cctcaaatag gatggg 496

342-42PCT.txt

<210> 529
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 529
 agcgcagtgg cgaggcgagt gtggaaggac tcctgaacca gctcgtcctg gagcacctgc 60
 agctggcgcc tctgcagtgg gatgtgctgg tggacggaca gccatgtgac cgcgaggctg 120
 tggcgggcctg ccaggtgggc gaccccgctg gcctggaggt gcggctgacc aaccggagcc 180
 cgcgcagcgt agggcccttc gccctcactg tgggtcccctt ccaggaccac cagaacggcg 240
 tgcacaacta cgacctgcac gacaccgtct ccttcgtggg ctccagcacc ttctacctcg 300
 acgcggtgca gccgtccggc cagtcggcct gcctcggggc cctcctcttc ctctacacgg 360
 gagacttctt cctccacatc cggttccacg aggacagcac cagcaaggag ctgccaccct 420
 cttggttctg cctgcccagt gtgcacgtgt gtgccctgga ggcgcaggcc tgagcccgcc 480
 tacttcgctc cctctttctg cagggccaga ggtgaccctg cctg 524

<210> 530
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 530
 aggtcaatct cgtattctct atgtgatatt gctgacaaag tcaaagtaag gaaagacata 60
 tcaaggggaag gcaatggaag caccttttct ttatagtaca ttcacctacc ttaacagacc 120
 aagataacat aggagagaaa ctggggctta agtccttgat agagcttctg ggggcacagt 180
 agttataggg ccaggtcaga aaatgtcctc acacactaag aaggcatttt aaaatcagaa 240
 aagacagtca cactcacttt ggtcaccaag tcatttagcc atcctgtctg gaaagcatgt 300
 tttcctctgg ggtcttcctc tggggatatct tgggaaaggg tagagttttg aggagctaga 360
 gaagagaaaag aggtcatgag ggagattagt cttttctgaa tagcctagga aaccctcac 420
 caaatagatg cctacacttt cttaaatcga gaagtaagaa ggaaatcaaa aacagcactc 480
 ctacttcaaa gcatcag 497

<210> 531
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 531
 gtgaaaagca accaaaggca acagagtcta gctcatggcc accagaccaa aagcatccag 60
 cttctgtgca cctcctgcaa agctggcaga ggccctggaa ttccagatca cctgagggga 120
 aagggttgct tctctccttt ctgttggggg agggggatgg gggacttttg ttggtggctc 180
 ccacccatat atccctcctt taccatagta ctcccacca cttccatcac ccatccaata 240

aaatgcagcc agg

253

<210> 532
 <211> 567
 <212> DNA
 <213> Homo sapiens

<400> 532
 cacctcggtc accagtgtga accaagccag cacatcccgc ctggagggcc tacagtcaga 60
 aaaccatcgc ctgcgaatga agatcacaga gctggataaa gacttggaag aggtcaccat 120
 gcagctgcag gacacaccag aaaagaccac ctacattaaa cagaaccact accaagagct 180
 caatgacatc ctcaacctgg gaaacttcac tgagagcaca gatggaggaa aggccatttt 240
 aaaaaatcac ctgatcaaa atccccagct acagtggaaac acaacagagc cctctcgaac 300
 atgcaaagat cctatagaag atataaactc tccagaacac atccagcgtc ggctgtccct 360
 ccagctcccc atcctccacc acgcctacct cccatccatc ggaggcgtgg acgccagctg 420
 tgtcagcccc tgcgtcagcc ccaccgccag ccccgccac agacatgtgc caccctcctt 480
 ccgagtcatg gtctcggggc tgtaaggggtg gggggcctgg gcccggggcc tccccgtga 540
 cagaaccaca ctgggcagag ggggtctg 567

<210> 533
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 533
 cagtattctg taccatagcg ctgctcttat gccatttggt tattttttata tagcttgaaa 60
 catagagggga gagagggaga gagcctatac cccttactta gcatgcacaa agtgtattca 120
 cgtgcagcag caacacaatg ttattcggtt tgtctacgtt tagtttccgt ttccaggtgt 180
 ttatagtggg gttttaaaga gaatgtagac ctgtgagaaa acgttttggt tgaaaaagca 240
 gacagaagtc actcaattgt ttttggtgtg gtctgagcca aagagaatgc cattctcttg 300
 ggtgggtaag actaaatctg taagctcttt gaaacaactt tctcttgtaa acgtttcagt 360
 aataaaacat ctttccagtc cttggtcagt ttggttgtgt aa 402

<210> 534
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (178)..(178)
 <223> n is a, c, g, t or u
 <400> 534

342-42PCT.txt

tgcattgtac ctgtagccat tccattgtga ataacacaaa aagtggagga aatatttttc	60
tgcatttgg aaattattct gtgattcagc aaagaagttg ttcattgtcat taacaagttc	120
agaaatacat gctgccaaag ccaaaaagag tcttcagttt aataaaaata attaacanga	180
aggtgagaaa tggtttacca gctgttcact tactggattt aaggttactt gttggggaaa	240
gagcagagta agatgcaact ctgtcaaact atggctgaa	279

<210> 535
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 535 tagcaaagga catggaagcc tggaaagatg taaccagtgg aaatgctaaa atttaccagc	60
ttccaggggg tcaacttttat cttctggatc ctgcgaacga gaaattaatc aagaactaca	120
taatcaagtg tctagaagta tcatcgatat ccaattttta gatattttcc ctttcaacttt	180
taaaataatc aaagtaatat catactcttc tcagttattc agatatagct cagttttatt	240
cagattggaa attacacatt ttctactgtc agggagattc gttacataaa tatattttacg	300
tatctgggga caaaggtcaa gccagtaaag aatacttctg gcagcacttt ggga	354

<210> 536
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (304)..(306)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (308)..(309)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (311)..(313)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (315)..(317)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (354)..(354)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (361)..(361)

<223> n is a, c, g, t or u

<400> 536

```
ttccctgatg actcacttac aagttagtga actccttggt taagtattac aaactgcaca      60
ccttctccct tctcaatcta gcttcacatc aggccttcct gccaaagcgg caaacttgcc      120
acatggggca aggtactccc caagcagaca aggccatct gtgtcatgag tgatacccaa      180
tgctaatgcc atgctctgaa atgtagtgcc caccttggt tcccaaagtg ctgggattgc      240
agacgtgagt cactgcgccc agccattcca tgtctcttaa gtctcagaat ctcccctagc      300
tncnnncnng nnnncnnagt ggttggtcccc tcaaagctgt cccacaccct cctncgagga      360
ncctttgtgt atctctcca gctaccgcag agcccacaaa cccaggcatc tatcaaagtc      420
cctcattcat gagggtggtg aggacacaga ctgcgaccag aacagaaata tgaaaatgtg      480
aatgacagcg tcccccg                                         497
```

<210> 537

<211> 340

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (68)..(68)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (81)..(81)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (115)..(115)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (118)..(118)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (120)..(120)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (122)..(122)

<223> n is a, c, g, t or u

<400> 537

342-42PCT.txt

tggagttagc aaaccttttc atgcctgtga cctcactgga gttctttgat gttgggactt	60
cataagtntg ccaaatacctg ncacttactg ctttatgacc ttgaccattt accgntntn	120
tntggacctc agtggttctca ggatgcaaaa ggaggggtcag gggtaaaata gcgactttcg	180
aactgtcagg ggtaaaatag cgactttcaa acttttcaaa cttctgggac aaggggtgaag	240
ggcaggactc tgectctctc cttcccttca ctttattcca cttaaattgt gtgattctac	300
aagcttatgt ttaaaggaat atgttcctcc attacaaaga	340

<210> 538
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (133)..(133)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (148)..(148)
 <223> n is a, c, g, t or u

<400> 538	
tgggaccacg ggcatttttg gcatgtacaa gggatatagg gcctcctact tccgcctcgg	60
ccccacacc atcctctccc tcttctcttg ggaccagctg cgctccctct actacacaga	120
cactaaataa canccgcttt ccagtcntc caccaaata gaactccttg gccacttggtg	180
cctccaccac tatgtcctgg tgactactga ttaggtgacc tttcatccat ccatggggga	240
cagccaaccc cactcccat ctgttctcag ggttgaatca ctacaagaga tgagtttccc	300
ttctttcctt ggggtgttgc ttaaaccctc cctacccatt ccctgggtaa ctcacacccc	360
tctctcaggg ctgaacgagt catcccaaag tgtatttctt cccactcacc actgccaccc	420
ttgagtcctt cctgctccca tgcacagttt taaactcctc cctccaaaac caaagggaa	480
tgagagaccc aattcccagg cgtctgggac ccagggtgtc tgtaga	527

<210> 539
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 539	
gacatgtttt ctagccttag ttccccatct acaaaatggg cctcatggaa tggaatgtct	60
ccacttcaact ccagcatcaa caagtgggga attctgatgg attcaattcg acttctttcc	120
atgggcgtgt tctaagcagc ctctttgttc cagaagctgc cctcagccag agttggataa	180
gccaatctc actccccagc ctctcttgga tagggatgaa gacccactg gggttggaag	240
tgcagaggca gacaggtgta tggagtcacc tgtaaattga ttcaagtga ccaggaaagc	300

342-42PCT.txt

agcaaaggaa agagaaacct gagtgacgac gtgggtggagg aacaggggctg gaaagaggct	360
gctggctgtc tggcttcgca gctctggcct cctaatacagc ctcgctcttg tctctgggtg	420
tctctggctc ttgtccatct gtctgtgttt ctttttgcca gctattgact aatctttgct	480
gaagctgagc tagaattctg gtgtttataa gcaggtaact agctgagcac ta	532

<210> 540
 <211> 811
 <212> DNA
 <213> Homo sapiens

<400> 540 ctttgggagg ctgaggcagg cagatcacct aaggccagga attcgacacc agcctggcca	60
acgtggcaaa acccgctctct actaaaaata caaaaattag ccgggcgtgg tgggtgtgcgc	120
ctggaatccc agctaccag gaggctgagg caggagaaat gctggaaccc gggaggcaga	180
ggctgcagtg agctgagatc atgccactac tgcactccag cctgggtgac acagcaagac	240
tccctctaaa aaaagaaaaa aagaaaagaa aagaaaagaa aatgatatat ccatgatgaa	300
ttaaaatgga gtggaaccca ctgatgggaa agccacagaa ggtaccagtt atccactcac	360
tgacttaggt gcctccacta gaattctcag cacgtttttg cagaacctgg gcaacaagag	420
cgaaacccca tctcaaaacc acaacaacaa caacaggaca acagagatgg acgacggatc	480
gggaaagcca accagacagc gtgaggccag gacggaaaga ggcacaggga gctctgctca	540
gtgtcgctac aggggatctc tcaggctcac aacgggccac tcctctaggg aagttctggg	600
ctcatcatga tccttgtttg gtctcactcc ccatgtcctt ctctgtccct cctccaactg	660
ccatttatatt atttaactga aaaagtacca atcacccaca taggcatgac atactcatcc	720
atgtacccat ttcttaaaat tgatcattgt taacatttgg tgtaatttgc tttatttatt	780
tttaatgaaa taaataaaac tttacagaaa a	811

<210> 541
 <211> 3874
 <212> DNA
 <213> Homo sapiens

<400> 541 aaaaaggtag aactaccttg ctgatgctgt acatatggct cacttgtgcc cagagagaga	60
ataaagccat gtcgaaacta tctacgattc cttgagtgtt tttccagcta cctgccactt	120
gcccacccac tccctcaga tctcagttag aacatgacaa ttgggctcat gaacaggatc	180
ctgagtgggt gcagggtgaac aagcagttgg cacaagggca aagtgatcac atcctgattg	240
agtggctatg gacagccata cagactgtgt ggaacaacgc tggtgaaata cccaaacat	300
ttagaagcag taatgcctca cttgcctggg actgggatgg tgtggctgag actgccttac	360
tggcagccag gtgcgctatt cagcagccac aagccctaca agtaattaac caggggcacc	420

tgtttgagct	ggaggtgcat	gtggccacag	acggtttttg	ttgaggcttg	tggcaatgca	480
cagagcgcct	aagaatgcca	gtaggctttt	ggccccaaact	atggaaagga	gctgaactcc	540
ggtattcatt	gatagagaaa	cagctagcag	ctgtatatgc	tggccttcgg	gctcatgaga	600
gcatgacagg	acaggctgca	gtcatcatat	ggacaactta	cccaataaca	ggatggatgc	660
gtctatgtgt	aatgaccacc	tggagtggga	tagcacagat	gtccactttg	gcaaaatggg	720
gcgactcctt	gcagcagtgg	agtaagctga	gtacaagtcc	catagcagca	gagttgcaag	780
aggtcttggg	acgtgtagtc	ctaattgcaag	ataaggccat	gcggcctgag	gcacccctag	840
atcctgagtc	ttcaccattt	aaggaagggc	atcccaggat	tcctgagggg	gcatgggtaca	900
cagtagatga	ggtgctactg	ctgcctggac	cactgttgca	gtccaacctt	gtactgacac	960
catatggttt	gaaactgggt	gcggacaaa	tagccaatgg	gctgaactca	gagcagtgtg	1020
gatggtaatc	accaaggagg	tgacacctgt	ggtaatctgt	actgatagct	gggcagtcta	1080
ctgaggctta	accttgtggg	taactacttg	gaaaatacag	aattggctag	tgagccacag	1140
accattttga	ggccaagcca	tatggcaaga	cctttggggg	ataggtcatc	aaaaagaggt	1200
aactatttat	catgtgtcag	gccatatgcc	tttggccacc	cctagtaatg	atgaggcaga	1260
tgccttggct	aaggtcagat	ggtcagagtc	agcaccaaca	caagatgtga	ccttgtggct	1320
acaccgaaa	ctgggacatg	cagggggtaa	actgatgtaa	caattcaata	agtgttgggg	1380
tctgtccctt	cccaagcaag	acatttgtga	ggcttgtcag	aatgcctgg	catgtgttca	1440
gacatatcct	aaaaagaggc	agctgcccgg	tgttatacaa	caagtaacaa	tagggtgagt	1500
gcccttgacc	aggtgggaag	tagactacat	cgggccggccg	ccaaagtgcg	gaggggtatac	1560
gcatgcacta	acggctgtag	acatggccac	aggcctgttg	ttcacctacc	cttgccaggg	1620
ggccaaccaa	cagaacacca	tccaggccct	gcaacactta	tgttcctgt	atggttgtcc	1680
tctggccatt	gagagtgata	ggggaacaca	tttactgga	caacaggtac	aatgatgggc	1740
acagcaaatg	gacataaagt	ggggattcca	tgtgccatac	agccacaag	ctgagggtatt	1800
attgaatgat	ataatgggat	cttgaagaat	ggattacgct	tgcagtgtcaa	accctgtct	1860
ttgcggagct	ggagttccag	gctggacctg	gtgctccaaa	ccttaaata	atggccacag	1920
aaaggtggcc	cggccccagt	ggaggctttg	tttactagg	ccaccacccc	cattcaattg	1980
gagatacata	ccaaggatga	cctcctccga	tcagggtatg	ggacaaatgg	taacctgttg	2040
ttgcctgccc	caacaaccct	gaaggcaggg	gaacagaaaa	cctggctgtg	gccatggacc	2100
ctccaagctc	tccactgctg	gtggttggcc	atcatagctc	cctgtgggga	gggcctacag	2160
tatgacttgc	atgtcacttt	ttgagtgttc	aatacatggc	ttccaagggt	gactgtttgt	2220
agaggaacag	ccagggaagg	aacctcctc	tgagggacat	atgtactatc	tgatgggcct	2280
attatgagct	acgctgtgac	tttggcatgg	atacaggatt	ctaaggaacc	atggagattt	2340

342-42PCT.txt

gagaagggtgt ggtaccatca cccagggcaa aagcccttgg tggctgcatt gttatccagg 2400
 gatggaaagt tagcctatat tttgcctgag ggatgtgatt tacctctgtt agtacctgtg 2460
 cctgctctgt catttcaacc gtaggttaac atgctccaat tgcattgtgg actgacccca 2520
 cacctatgct gaggtgacca atgtttccaa ctgttggacc tgcactgcct ttccagcagc 2580
 agctgcagac agcttgcccc gacacatata tcccggtgtc gcagagaact ggacatgcct 2640
 ggagacttga gatcccatgg ctgatgcctg gaacacaatg tggcaagctt tggacaaaagg 2700
 acacagcaag acccatggct ggaccgtagc attcgtgatg agtggggctg gctagtaggg 2760
 gaacatgtag tagcccaagc ccaggcattg cagtgcacag agcaacattg gggtaacagg 2820
 atgggtacct gtcacggcct gtgcaaacat aacatgtgtc accacactga aggtatggta 2880
 gaacaagtgg cctcaccaag gtcggacccc aatggacttt ttgcctcttg ggagcttatg 2940
 ggtctatgag gacacagtag cctttcctat cagcaaactg gagtggatgt tgtatctggg 3000
 ggtggcctta tgtacctgct actgttctcc ccacattgcc cagatgcctg tataactggg 3060
 aggcactgtg ctctcagttt ttgcgaatgt gatgagcccc ctggtgtttc taccctttgg 3120
 caatgactat ccctggagca ggtgtcaaaa ctgtagaagc acaatttact gctcttgagg 3180
 agcacaccgc tcaggctctg aattacacct gagtgtccct cctcctgtta atgaatgagg 3240
 ttgatcagat caaaaagtgg tgttgcaaaa ccaagtggcc ttagacataa ctgctgcccc 3300
 aggagccacc tgtgcccttt taggaacaca atgttgtacc ttatccctga caatcagcag 3360
 aacataacag cagccctgca aaggggtctt ccaggagatt aaggtgactg agagcctcac 3420
 tgtcaacccc ctgcagagat ggtgagcatc cctaggttct ggcgtagatt gggccctaatt 3480
 agtcataagt atcatagctg agatcctagt agtgagctgt tgcctctctgt attgttgttg 3540
 tgggttatgg actcagggtc ccgcatata ggcattgtgtc cctgcctgga ggacgccctc 3600
 agcctagggg gtgtagtgtg agggaaatgg ctgtgcttta gtcaggagta ggctgaggca 3660
 gccttctggg gcagcatgac tcagtgggtt tggagtgcaa gcacacaacc ttgctcgtaa 3720
 tgtaaccaca ccacatgagg ccattaggt aacaactcac atgagctcgt gtttggtcga 3780
 gagccactat tgtctgtaaa aggtatacct tgctgatgct gcacatatgg ctgccttggtg 3840
 cccagagaga gagtaaagcc atgttgaaac tgtc 3874

<210> 542
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 542

Met Pro Val Gly Phe Trp Ser Gln Leu Trp Lys Gly Ala Glu Leu Arg
 1 5 10 15

342-42PCT.txt

Tyr Ser Leu Ile Glu Lys Gln Leu Ala Ala Val Tyr Ala Gly Leu Arg
20 25 30

Ala His Glu Ser Met Thr Gly Gln Ala Ala Val Ile Ile Trp Thr Thr
35 40 45

Tyr Pro Ile Thr Gly Trp Met Arg Leu Cys Val Met Thr Thr Trp Ser
50 55 60

Gly Ile Ala Gln Met Ser Thr Leu Ala Lys Trp Gly Asp Ser Leu Gln
65 70 75 80

Gln Trp Ser Lys Leu Ser Thr Ser Pro Ile Ala Ala Glu Leu Gln Glu
85 90 95

Val Leu Gly Arg Val Val Leu Met Gln Asp Lys Ala Met Arg Pro Glu
100 105 110

Ala Pro Leu Asp Pro Glu Ser Ser Pro Phe Lys Glu Gly His Pro Arg
115 120 125

Ile Pro Glu Gly Ala Trp Tyr Thr Val Asp Glu Val Leu Leu Leu Pro
130 135 140

Gly Pro Leu Leu Gln Ser Asn Leu Val Leu Thr Pro Tyr Gly Leu Lys
145 150 155 160

Leu Gly Ala Asp Lys Val Ala Asn Gly Leu Asn Ser Glu Gln Cys Gly
165 170 175

Trp

<210> 543
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 543
catgaacagg atcctgagtg g

21

<210> 544
<211> 24
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 544
 tgaggcatta ctgcttctaa atgg 24

<210> 545
 <211> 2863
 <212> DNA
 <213> Homo sapiens

<400> 545
 cacgccaaac acgcagcccc ctcccgtctg agtgacaact ggccagcata ctctaggctg 60
 ttgtcccttt aaaacttgaa tccaaggggg taatgattta tcaaacttgt attatcaaga 120
 aaatgtcaaa ccaagggcac cttgctttgc actgacgcaa acccggcctt tccaaggag 180
 atatagaaag cgcctctcct gcctgagcca aaccagctct tgtcaatagc gggtttcacc 240
 ctccaccagt tcagtctgtt gcctgtgtca gacatggatt gcagtgtctc caaggaaatg 300
 aataaactgc cagccaacag cccggaggcg gcggcggcgc agggccaccc ggatggccca 360
 tgcgctccca ggacgagccc ggagcaggag cttcccgcgg ctgccgcccc gccgcgcga 420
 cgtgtgccca ggtccgcttc caccggcgcc caaactttcc agtcagcgga cgcgcgagcc 480
 tgcgaggctg agcggccagg agtggggtct tgcaaactca gtagcccgcg ggcgcaggcg 540
 gcctctgcag ctctgcggga cttgagagag gcgcaaggcg cgcaggcctc gccccctccc 600
 gggagctccg ggcccggcaa cgcgctgcac tgtaagatcc cttttctgcg agggccggag 660
 ggggatgcga acgtgagtgt gggcaagggc accctggagc ggaacaatac ccctgttgtg 720
 ggctgggtga acatgagcca gagcaccgtg gtgctggcca cggatggaat cacgtccgtg 780
 ctcccgggca gcgtggccac cgttgccacc caggaggacg agcaagggga tgagaataag 840
 gcccgaggga actggtccag caaactggac ttcacctctgt ccatggtggg gtacgcagtg 900
 gggctgggca atgtctggag gtttccctac ctggccttcc agaacggggg aggtgctttc 960
 ctcatccctt acctgatgat gctggctctg gctggattac ccatcttctt cttggagggtg 1020
 tcgctgggac agtttgccag ccagggaacca gtgtctgtgt ggaaggccat ccagctcta 1080
 caaggctgtg gcatcgcat gctgatcatc tctgtcctaa tagccatata ctacaatgtg 1140
 attatttgct atacactttt ctacctgttt gcctcctttg tgtctgtact accctggggc 1200
 tcctgcaaca acccttgga taccgcagaa tgcaaagata aaaccaaact tttattagat 1260
 tcctgtgtta tcagtgaaca tcccaaaata cagatcaaga actcgacttt ctgcatgacc 1320
 gcttatccca acgtgacaat ggttaatttc accagccagg ccaataagac atttgtcagt 1380
 ggaagtgaag agtacttcaa gtactttgtg ctgaagattt ctgcagggat tgaatatcct 1440
 ggcgagatca ggtggccact agctctctgc ctcttcctgg cttgggtcat tgtgtatgca 1500
 tcattggcta aaggaatcaa gacttcagga aaagtgggtg acttcacggc cacgttccc 1560
 tatgtcgtac tcgtgatcct cctcatccga ggagtcaccc tgccctggagc tggagctggg 1620

342-42PCT.txt

atctggtact tcatcacacc caagtgggag aaactcacgg atgccacggt gtggaaagat 1680
gctgccactc agattttctt ctctttatct gctgcatggg gaggcctgat cactctctct 1740
tcttacaaca aattccacaa caactgctac agggacactc taattgtcac ctgcaccaac 1800
agtgccacaa gcatctttgc cggcttcgtc atcttctccg ttatcggtt catggccaat 1860
gaacgcaaag tcaacattga gaatgtggca gaccaagggc caggcattgc atttgtggtt 1920
tacccggaag ccttaaccag gctgcctctc tctccgttct gggccatcat ctttttctctg 1980
atgctcctca ctcttggtact tgacactatg tttgccacca tcgagaccat agtgacctcc 2040
atctcagacg agtttcccaa gtacctacgc acacacaagc cagtgtttac tctgggctgc 2100
tgcatttggt tcttcatcat gggttttcca atgatcactc agggtggaat ttacatgttt 2160
cagcttggtg acacctatgc tgccctctat gcccttgta tcattgccat ttttgagctc 2220
gtggggatct cttatgtgta tggcttgcaa agattctgtg aagatataga gatgatgatt 2280
ggattccagc ctaacatctt ctggaaagtc tgctgggcat ttgtaacccc aaccatttta 2340
acctttatcc tttgcttcag cttttaccag tgggagccca tgacctatgg ctcttaccgc 2400
tatacctaact ggtccatggt gctcggatgg ctaatgctcg cctgttccgt catctggatc 2460
ccaattatgt ttgtgataaa aatgcatctg gcccttgaa gatttattga gaggctgaag 2520
ttggtgtgct cgccacagcc ggactggggc ccattcttag ctcaacaccg cggggagcgt 2580
tacaagaaca tgatcgaccc cttgggaacc tcttccttgg gactcaaact gccagtgaag 2640
gatttggaac tgggcactca gtgctagtcc agtgggtgtg gatggtccag acttgatcct 2700
gtttttctct tctgcctcct cctaattgtt tccatagctc tcctcccatt tttcttcatc 2760
tttcttcta catcttggtt cacatccacg catgagagtg attatgtaga aaagtaggca 2820
tagtgtcgca tgctgcagta aagagctaca tagaccacct gaa 2863

<210> 546
<211> 797
<212> PRT
<213> Homo sapiens

<400> 546

Met Asp Cys Ser Ala Pro Lys Glu Met Asn Lys Leu Pro Ala Asn Ser
1 5 10 15

Pro Glu Ala Ala Ala Ala Gln Gly His Pro Asp Gly Pro Cys Ala Pro
20 25 30

Arg Thr Ser Pro Glu Gln Glu Leu Pro Ala Ala Ala Pro Pro Pro
35 40 45

Pro Arg Val Pro Arg Ser Ala Ser Thr Gly Ala Gln Thr Phe Gln Ser
Page 242

50

55

60

Ala Asp Ala Arg Ala Cys Glu Ala Glu Arg Pro Gly Val Gly Ser Cys
65 70 75 80

Lys Leu Ser Ser Pro Arg Ala Gln Ala Ala Ser Ala Ala Leu Arg Asp
85 90 95

Leu Arg Glu Ala Gln Gly Ala Gln Ala Ser Pro Pro Pro Gly Ser Ser
100 105 110

Gly Pro Gly Asn Ala Leu His Cys Lys Ile Pro Phe Leu Arg Gly Pro
115 120 125

Glu Gly Asp Ala Asn Val Ser Val Gly Lys Gly Thr Leu Glu Arg Asn
130 135 140

Asn Thr Pro Val Val Gly Trp Val Asn Met Ser Gln Ser Thr Val Val
145 150 155 160

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

Val Ala Thr Gln Glu Asp Glu Gln Gly Asp Glu Asn Lys Ala Arg Gly
180 185 190

Asn Trp Ser Ser Lys Leu Asp Phe Ile Leu Ser Met Val Gly Tyr Ala
195 200 205

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

Gly Gly Gly Ala Phe Leu Ile Pro Tyr Leu Met Met Leu Ala Leu Ala
225 230 235 240

Gly Leu Pro Ile Phe Phe Leu Glu Val Ser Leu Gly Gln Phe Ala Ser
245 250 255

Gln Gly Pro Val Ser Val Trp Lys Ala Ile Pro Ala Leu Gln Gly Cys
260 265 270

Gly Ile Ala Met Leu Ile Ile Ser Val Leu Ile Ala Ile Tyr Tyr Asn
275 280 285

Val Ile Ile Cys Tyr Thr Leu Phe Tyr Leu Phe Ala Ser Phe Val Ser
290 295 300

Val Leu Pro Trp Gly Ser Cys Asn Asn Pro Trp Asn Thr Pro Glu Cys
Page 243

305				310				315				320			
Lys	Asp	Lys	Thr	Lys 325	Leu	Leu	Leu	Asp	Ser 330	Cys	Val	Ile	Ser	Asp 335	His
Pro	Lys	Ile	Gln 340	Ile	Lys	Asn	Ser	Thr 345	Phe	Cys	Met	Thr	Ala 350	Tyr	Pro
Asn	Val	Thr 355	Met	Val	Asn	Phe	Thr 360	Ser	Gln	Ala	Asn	Lys 365	Thr	Phe	Val
Ser	Gly 370	Ser	Glu	Glu	Tyr	Phe 375	Lys	Tyr	Phe	Val	Leu 380	Lys	Ile	Ser	Ala
Gly 385	Ile	Glu	Tyr	Pro	Gly 390	Glu	Ile	Arg	Trp	Pro 395	Leu	Ala	Leu	Cys	Leu 400
Phe	Leu	Ala	Trp 405	Val	Ile	Val	Tyr	Ala	Ser 410	Leu	Ala	Lys	Gly	Ile 415	Lys
Thr	Ser	Gly	Lys 420	Val	Val	Tyr	Phe	Thr 425	Ala	Thr	Phe	Pro	Tyr 430	Val	Val
Leu	Val	Ile 435	Leu	Leu	Ile	Arg	Gly 440	Val	Thr	Leu	Pro	Gly 445	Ala	Gly	Ala
Gly	Ile	Trp	Tyr	Phe	Ile	Thr 455	Pro	Lys	Trp	Glu	Lys 460	Leu	Thr	Asp	Ala
Thr 465	Val	Trp	Lys	Asp 470	Ala	Ala	Thr	Gln	Ile	Phe 475	Phe	Ser	Leu	Ser	Ala 480
Ala	Trp	Gly	Gly	Leu 485	Ile	Thr	Leu	Ser	Ser 490	Tyr	Asn	Lys	Phe	His 495	Asn
Asn	Cys	Tyr	Arg 500	Asp	Thr	Leu	Ile	Val 505	Thr	Cys	Thr	Asn	Ser 510	Ala	Thr
Ser	Ile	Phe 515	Ala	Gly	Phe	Val	Ile 520	Phe	Ser	Val	Ile	Gly 525	Phe	Met	Ala
Asn	Glu 530	Arg	Lys	Val	Asn	Ile 535	Glu	Asn	Val	Ala	Asp 540	Gln	Gly	Pro	Gly
Ile 545	Ala	Phe	Val	Val	Tyr 550	Pro	Glu	Ala	Leu	Thr 555	Arg	Leu	Pro	Leu	Ser 560
Pro	Phe	Trp	Ala	Ile	Ile	Phe	Phe	Leu	Met	Leu	Leu	Thr	Leu	Gly	Leu

565

570

575

Asp Thr Met Phe Ala Thr Ile Glu Thr Ile Val Thr Ser Ile Ser Asp
 580 585 590

Glu Phe Pro Lys Tyr Leu Arg Thr His Lys Pro Val Phe Thr Leu Gly
 595 600 605

Cys Cys Ile Cys Phe Phe Ile Met Gly Phe Pro Met Ile Thr Gln Gly
 610 615 620

Gly Ile Tyr Met Phe Gln Leu Val Asp Thr Tyr Ala Ala Ser Tyr Ala
 625 630 635 640

Leu Val Ile Ile Ala Ile Phe Glu Leu Val Gly Ile Ser Tyr Val Tyr
 645 650 655

Gly Leu Gln Arg Phe Cys Glu Asp Ile Glu Met Met Ile Gly Phe Gln
 660 665 670

Pro Asn Ile Phe Trp Lys Val Cys Trp Ala Phe Val Thr Pro Thr Ile
 675 680 685

Leu Thr Phe Ile Leu Cys Phe Ser Phe Tyr Gln Trp Glu Pro Met Thr
 690 695 700

Tyr Gly Ser Tyr Arg Tyr Pro Asn Trp Ser Met Val Leu Gly Trp Leu
 705 710 715 720

Met Leu Ala Cys Ser Val Ile Trp Ile Pro Ile Met Phe Val Ile Lys
 725 730 735

Met His Leu Ala Pro Gly Arg Phe Ile Glu Arg Leu Lys Leu Val Cys
 740 745 750

Ser Pro Gln Pro Asp Trp Gly Pro Phe Leu Ala Gln His Arg Gly Glu
 755 760 765

Arg Tyr Lys Asn Met Ile Asp Pro Leu Gly Thr Ser Ser Leu Gly Leu
 770 775 780

Lys Leu Pro Val Lys Asp Leu Glu Leu Gly Thr Gln Cys
 785 790 795

<210> 547
 <211> 24
 <212> DNA
 <213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 547

ggatttgcaa gttgtgtagt gtgc

24

<210> 548

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 548

aagcagatgg tcattctcca g

21

<210> 549

<211> 2426

<212> DNA

<213> Homo sapiens

<400> 549

ctcttttcaac tcaagagctc agtcctgtgt ctctcatgga ggcgtctcta accaggaggc	60
tactctttta agacaggcat ttactttgca gcaaaataat aggaaggaga ttcgcttgct	120
ttgcacagag gctgagccac aggagaaagc aaagccaatg tgatttattg aatgaaagca	180
ctggacaatt accaacaact tgttcctctg ctgcctcgaa cagcataaac tggaattgtc	240
gtgtgaaaat gacgcaacaa atgcaaaatt tacatctctg tcagtcaaaa aaacatagtg	300
ctccctcatc tccaacgca gccaaacgcc tgtacaggaa cctctctgag aaactgaaag	360
ggagccactc ttccttcgat gaggcctatt ttaggacaag aactgatcgg ctgagtctca	420
ggaagacctc ggtgaatttc cagggaatg aagccatggt tgaggcagtc gaacagcagg	480
acatggatgc tgtgcagatc ctctgtatc agtacacacc agaagaactt gacctcaaca	540
cacctaacag cgagggttg acacccttg atattgccat catgaccaac aatgtgcca	600
ttgcaaggat tcttctgagg acaggggccc gagaaagtcc acactttgtc agcctggaaa	660
gccgagcaat gcacctcaac acactgggtc aggaagccca ggagaggggtg agtgaactgt	720
ctgcccaggt ggagaatgaa ggattcactc tggacaacac agagaaagag aagcagctga	780
aagcttgga gtggaggtat cggctctaca gacgcatgaa aacaggcttt gagcatgcca	840
gagccctga gatgccaacc aatgtctgtc tcatggtaac cagcagcaca tctctactg	900
tcagcttcca agagcctctt agcgtcaatg cagctgtagt aaccagggtat aaagtggaat	960
ggagtatgtc cgaagacttt tctcctttgg ctggagaaat catcatggat aatctgcaga	1020
ctctgagatg cacaatcaca ggacttacia tgggccaaca gtattttgtt caagtctcgg	1080
cttacaatat gaaaggatgg ggacctgtc agaccacgac accggcatgt gcctctcctt	1140
ctaactggaa agactatgac gacagagagc ccagacacaa gggacagagt gaagttttgg	1200

342-42PCT.txt

aaggtctgct gcagcaggtc cgagcccttc atcagcatta cagttgccgg gaaagcacia 1260
aattacaaac cacaggccgc aagcagtcag tctcaagaag cctgaaacac ctgttccatt 1320
cctcgaacia gtttgtgaag accttaaaac ggggactcta catagccggt atattttatt 1380
acaaagacia tatcttagtc accaatgaag atcaagtacc aattggtgaa atagatgact 1440
ctcacaccag ttctattaca caagattttc tgtggttcac gaagctgtct tgtatgtggg 1500
aagatataag gtggctgagg caaagcatac caatatcctc atcctcatcc acagtgtctgc 1560
aaactcggca gaagatgctc gcagcaacag cacagctaca gaatttactt gggacacaca 1620
acttggaag agtttactat gagcccatta aagatcgaca tggaaacata ctcatagtca 1680
ccatcaggga ggtggagatg ctttattcat tttttaatgg caaatggatg cagatctcaa 1740
agctgcaaag ccagagaaag tctctatcaa cacctgagga gccaacagct ttagacattc 1800
tactgataac catccaggat attctatcct atcacaaaag gagtcatcag cgtctctttc 1860
ctggattata tctgggttac cttaaagctct gtagctctgt ggatcaaac aaagttcttg 1920
ttacccaaaa gttgcccaac attctctgcc acgtgaagat ccgtgaaaac aataatattt 1980
ctagagagga atgggaatgg atccaaaagc tttctggctc tgaatctatg gaaagtgtgg 2040
atcatacttc tgactgcccc atgcaattgt tcttctacga gctccagatg gcagtgaag 2100
ctctccttca gcagatcaat atacctctac accaggcaag gaacttccgc ctctacacac 2160
aggaggtgtt ggaaatgggt cacaatgtgt cctttcttct cctgctccct gcctcagacg 2220
acgtctgtac agccccagga cagaataatc cttacacccc aactcaggg tttcttaacc 2280
tccctcttca gatgtttgaa cttggtatag tagcttgttt cacctagaaa tattaaccca 2340
gcctccttat aataaaatca caaagttata tctgttcccc cttgtcccag tggaggggtca 2400
ataaatcaca tgatggcttt ggcaac 2426

<210> 550
<211> 763
<212> PRT
<213> Homo sapiens

<400> 550

Met Glu Ala Ser Leu Thr Arg Arg Leu Leu Phe Lys Asp Arg His Phe
1 5 10 15

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

Leu Ser His Arg Arg Lys Gln Ser Gln Cys Asp Leu Leu Asn Glu Ser
35 40 45

Thr Gly Gln Leu Pro Thr Thr Cys Ser Ser Ala Ala Ser Asn Ser Ile

50

55

60

Asn Trp Asn Cys Arg Val Lys Met Thr Gln Gln Met Gln Asn Leu His
 65 70 75 80

Leu Cys Gln Ser Lys Lys His Ser Ala Pro Ser Ser Pro Asn Ala Ala
 85 90 95

Lys Arg Leu Tyr Arg Asn Leu Ser Glu Lys Leu Lys Gly Ser His Ser
 100 105 110

Ser Phe Asp Glu Ala Tyr Phe Arg Thr Arg Thr Asp Arg Leu Ser Leu
 115 120 125

Arg Lys Thr Ser Val Asn Phe Gln Gly Asn Glu Ala Met Phe Glu Ala
 130 135 140

Val Glu Gln Gln Asp Met Asp Ala Val Gln Ile Leu Leu Tyr Gln Tyr
 145 150 155 160

Thr Pro Glu Glu Leu Asp Leu Asn Thr Pro Asn Ser Glu Gly Leu Thr
 165 170 175

Pro Leu Asp Ile Ala Ile Met Thr Asn Asn Val Pro Ile Ala Arg Ile
 180 185 190

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

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

Val Ser Glu Leu Ser Ala Gln Val Glu Asn Glu Gly Phe Thr Leu Asp
 225 230 235 240

Asn Thr Glu Lys Glu Lys Gln Leu Lys Ala Trp Glu Trp Arg Tyr Arg
 245 250 255

Leu Tyr Arg Arg Met Lys Thr Gly Phe Glu His Ala Arg Ala Pro Glu
 260 265 270

Met Pro Thr Asn Val Cys Leu Met Val Thr Ser Ser Thr Ser Leu Thr
 275 280 285

Val Ser Phe Gln Glu Pro Leu Ser Val Asn Ala Ala Val Val Thr Arg
 290 295 300

Tyr Lys Val Glu Trp Ser Met Ser Glu Asp Phe Ser Pro Leu Ala Gly

305				310				315				320			
Glu	Ile	Ile	Met	Asp 325	Asn	Leu	Gln	Thr	Leu 330	Arg	Cys	Thr	Ile	Thr 335	Gly
Leu	Thr	Met	Gly 340	Gln	Gln	Tyr	Phe	Val 345	Gln	Val	Ser	Ala	Tyr 350	Asn	Met
Lys	Gly	Trp 355	Gly	Pro	Ala	Gln	Thr 360	Thr	Thr	Pro	Ala	Cys 365	Ala	Ser	Pro
Ser	Asn 370	Trp	Lys	Asp	Tyr	Asp 375	Asp	Arg	Glu	Pro	Arg 380	His	Lys	Gly	Gln
Ser 385	Glu	Val	Leu	Glu	Gly 390	Leu	Leu	Gln	Gln	Val 395	Arg	Ala	Leu	His	Gln 400
His	Tyr	Ser	Cys	Arg 405	Glu	Ser	Thr	Lys	Leu 410	Gln	Thr	Thr	Gly	Arg 415	Lys
Gln	Ser	Val	Ser 420	Arg	Ser	Leu	Lys	His 425	Leu	Phe	His	Ser	Ser 430	Asn	Lys
Phe	Val	Lys 435	Thr	Leu	Lys	Arg	Gly 440	Leu	Tyr	Ile	Ala	Val 445	Ile	Phe	Tyr
Tyr	Lys 450	Asp	Asn	Ile	Leu	Val 455	Thr	Asn	Glu	Asp	Gln 460	Val	Pro	Ile	Val
Glu 465	Ile	Asp	Asp	Ser	His 470	Thr	Ser	Ser	Ile	Thr 475	Gln	Asp	Phe	Leu	Trp 480
Phe	Thr	Lys	Leu	Ser 485	Cys	Met	Trp	Glu	Asp 490	Ile	Arg	Trp	Leu	Arg 495	Gln
Ser	Ile	Pro	Ile 500	Ser	Ser	Ser	Ser	Ser 505	Thr	Val	Leu	Gln	Thr 510	Arg	Gln
Lys	Met	Leu	Ala	Ala	Thr	Ala	Gln 520	Leu	Gln	Asn	Leu	Leu 525	Gly	Thr	His
Asn	Leu 530	Gly	Arg	Val	Tyr	Tyr 535	Glu	Pro	Ile	Lys	Asp 540	Arg	His	Gly	Asn
Ile 545	Leu	Ile	Val	Thr	Ile 550	Arg	Glu	Val	Glu	Met 555	Leu	Tyr	Ser	Phe	Phe 560
Asn	Gly	Lys	Trp	Met	Gln	Ile	Ser	Lys	Leu	Gln	Ser	Gln	Arg	Lys	Ser

565

570

575

Leu Ser Thr Pro Glu Glu Pro Thr Ala Leu Asp Ile Leu Leu Ile Thr
 580 585 590

Ile Gln Asp Ile Leu Ser Tyr His Lys Arg Ser His Gln Arg Leu Phe
 595 600 605

Pro Gly Leu Tyr Leu Gly Tyr Leu Lys Leu Cys Ser Ser Val Asp Gln
 610 615 620

Ile Lys Val Leu Val Thr Gln Lys Leu Pro Asn Ile Leu Cys His Val
 625 630 635 640

Lys Ile Arg Glu Asn Asn Asn Ile Ser Arg Glu Glu Trp Glu Trp Ile
 645 650 655

Gln Lys Leu Ser Gly Ser Glu Ser Met Glu Ser Val Asp His Thr Ser
 660 665 670

Asp Cys Pro Met Gln Leu Phe Phe Tyr Glu Leu Gln Met Ala Val Lys
 675 680 685

Ala Leu Leu Gln Gln Ile Asn Ile Pro Leu His Gln Ala Arg Asn Phe
 690 695 700

Arg Leu Tyr Thr Gln Glu Val Leu Glu Met Gly His Asn Val Ser Phe
 705 710 715 720

Leu Leu Leu Leu Pro Ala Ser Asp Asp Val Cys Thr Ala Pro Gly Gln
 725 730 735

Asn Asn Pro Tyr Thr Pro His Ser Gly Phe Leu Asn Leu Pro Leu Gln
 740 745 750

Met Phe Glu Leu Gly Ile Val Ala Cys Phe Thr
 755 760

<210> 551

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 551

agctctgtag ctctgtggat c

21

<210> 552

<211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 552
 aggcggaagt tccttgctg g 21

<210> 553
 <211> 2281
 <212> DNA
 <213> Homo sapiens

<400> 553
 gcgggcccga gccagcgcac ccagaccctg cgctgccctc ggacggccgg gcgcggagcc 60
 ccagctgcgg aggccgacgg caccggcccc cgagcgccctc gacgccgagc cgcgcgcgcc 120
 ttctccgcca ggcccggcgg gcgggagcgg gggcgagggg gcaggagcgg ccagtgcctc 180
 cgacaccccc ggcccggcac cccgggcccc gcatcccccg ccgccgccgc cgcgcctca 240
 aggccgcccc ctccccgcag gtggacgcgg ccatgggccc aggggtgcgc gtgctgctgc 300
 tgctgagcct gctgcactgc gccgggggca gcgagggcag gaagacctgg cggcgccggg 360
 gtcagcagcc gcctcctccc ccgcggaccg aggcggcgcc ggccggccgga cagcccgtgg 420
 agagcttccc gctggacttc acggccgtgg agggtaacat ggacagcttc atggcgcaag 480
 tcaagagcct ggcgcagtcc ctgtaccctt gctccgcgca gcagctcaac gaggacctgc 540
 gcctgcacct cctactcaac acctcggtga cctgcaacga cggcagcccc gccggctact 600
 acctgaagga gtccaggggc agccggcggg ggctcctctt cctggaaggc ggctgggtact 660
 gcttcaaccg cgagaactgc gactccagat acgacaccat gggcgccctc atgagctccc 720
 gggactggcc gcgcactcgc acaggcacag ggatcctgtc ctcacagccg gaggagaacc 780
 cctactggtg gaacgcaaac atggtcttca tcccctactg ctccagtgat gtttggagcg 840
 gggcttcac ccaagtctgag aagaacgagt acgccttcat gggcgccctc atcatccagg 900
 aggtggtgcg ggagcttctg ggcagagggc tgagcggggc caaggtgctg ctgctggccg 960
 ggagcagcgc ggggggcacc ggggtgctcc tgaatgtgga ccgtgtggct gagcagctgg 1020
 agaagctggg ctaccagcc atccagggtgc gaggcctggc tgactccggc tggttcctgg 1080
 acaacaagca gtatcgccac acagactgcg tcgacacgat cacgtgcgcg cccacggagg 1140
 ccatccgccg tggcatcagg tactggaacg ggggtggtccc ggagcgctgc cgacgccagt 1200
 tccaggaggg cgaggagtgg aactgcttct ttggctacaa ggtctaccgc accctgcgct 1260
 gccctgtgtt cgtggtgcag tggctgtttg acgaggcaca gctgacggtg gacaacgtgc 1320
 acctgacggg gcagccgggtg caggagggcc tgcggctgta catccagaac ctcgcccgcg 1380
 agctgcgcca cacactcaag gacgtgccgg ccagctttgc ccccgccctgc ctctcccatg 1440

342-42PCT.txt

```

agatcatcat ccggagccac tggacggatg tccaggtgaa ggggacgtcg ctgccccgag 1500
cactgcactg ctgggacagg agcctccatg acagccacaa ggccagcaag acccccctca 1560
agggctgccc cgtccacctg gtggacagct gcccctggcc ccactgcaac ccctcatgcc 1620
ccaccgtccg agaccagttc acggggcaag agatgaacgt ggcccagttc ctcatgcaca 1680
tgggcttcga catgcagacg gtggcccagc cgcagggact ggagcccagt gagctgctgg 1740
ggatgctgag caacggaagc taggcagact gtctggagga ggagccggca ctgagggggcc 1800
cagacacccg ctgccccagt gccacctcac cccccaccag caggccctcc cgtctcttcg 1860
ggacagggcc ccagccgtcc cccctgtctg ggtctgcccc ctgcccctct gccccggctt 1920
tccttgcccc tctccacag cccagccaga gacaagggac ctgctgtcat ccccatctgt 1980
ggcctggggg tccttcctga caacgagggg gtagccagaa gagaagcact ggattcctca 2040
gtccaccagc tcagacagca cccaccggcc ccacccatca agccctttta tattatttta 2100
taaagtgact tttttattac tttaattttt taaaaaaagg aaaataagaa tatatgatga 2160
atgatattgt tttgtaactt tttaaaaatg attttaaaga gacaaaaaag aacctcaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
a 2281

```

```

<210> 554
<211> 496
<212> PRT
<213> Homo sapiens

```

```
<400> 554
```

```

Met Gly Arg Gly Val Arg Val Leu Leu Leu Leu Ser Leu Leu His Cys
1             5             10             15

```

```

Ala Gly Gly Ser Glu Gly Arg Lys Thr Trp Arg Arg Arg Gly Gln Gln
                20             25             30

```

```

Pro Pro Pro Pro Pro Arg Thr Glu Ala Ala Pro Ala Ala Gly Gln Pro
35             40             45

```

```

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

```

```

Ser Phe Met Ala Gln Val Lys Ser Leu Ala Gln Ser Leu Tyr Pro Cys
65             70             75             80

```

```

Ser Ala Gln Gln Leu Asn Glu Asp Leu Arg Leu His Leu Leu Leu Asn
85             90             95

```

```

Thr Ser Val Thr Cys Asn Asp Gly Ser Pro Ala Gly Tyr Tyr Leu Lys

```


100

105

110

Glu Ser Arg Gly Ser Arg Arg Trp Leu Leu Phe Leu Glu Gly Gly Trp
 115 120 125

Tyr Cys Phe Asn Arg Glu Asn Cys Asp Ser Arg Tyr Asp Thr Met Arg
 130 135 140

Arg Leu Met Ser Ser Arg Asp Trp Pro Arg Thr Arg Thr Gly Thr Gly
 145 150 155 160

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

Met Val Phe Ile Pro Tyr Cys Ser Ser Asp Val Trp Ser Gly Ala Ser
 180 185 190

Ser Lys Ser Glu Lys Asn Glu Tyr Ala Phe Met Gly Ala Leu Ile Ile
 195 200 205

Gln Glu Val Val Arg Glu Leu Leu Gly Arg Gly Leu Ser Gly Ala Lys
 210 215 220

Val Leu Leu Leu Ala Gly Ser Ser Ala Gly Gly Thr Gly Val Leu Leu
 225 230 235 240

Asn Val Asp Arg Val Ala Glu Gln Leu Glu Lys Leu Gly Tyr Pro Ala
 245 250 255

Ile Gln Val Arg Gly Leu Ala Asp Ser Gly Trp Phe Leu Asp Asn Lys
 260 265 270

Gln Tyr Arg His Thr Asp Cys Val Asp Thr Ile Thr Cys Ala Pro Thr
 275 280 285

Glu Ala Ile Arg Arg Gly Ile Arg Tyr Trp Asn Gly Val Val Pro Glu
 290 295 300

Arg Cys Arg Arg Gln Phe Gln Glu Gly Glu Glu Trp Asn Cys Phe Phe
 305 310 315 320

Gly Tyr Lys Val Tyr Pro Thr Leu Arg Cys Pro Val Phe Val Val Gln
 325 330 335

Trp Leu Phe Asp Glu Ala Gln Leu Thr Val Asp Asn Val His Leu Thr
 340 345 350

Gly Gln Pro Val Gln Glu Gly Leu Arg Leu Tyr Ile Gln Asn Leu Gly

355

360

365

Arg Glu Leu Arg His Thr Leu Lys Asp Val Pro Ala Ser Phe Ala Pro
 370 375 380

Ala Cys Leu Ser His Glu Ile Ile Ile Arg Ser His Trp Thr Asp Val
 385 390 395 400

Gln Val Lys Gly Thr Ser Leu Pro Arg Ala Leu His Cys Trp Asp Arg
 405 410 415

Ser Leu His Asp Ser His Lys Ala Ser Lys Thr Pro Leu Lys Gly Cys
 420 425 430

Pro Val His Leu Val Asp Ser Cys Pro Trp Pro His Cys Asn Pro Ser
 435 440 445

Cys Pro Thr Val Arg Asp Gln Phe Thr Gly Gln Glu Met Asn Val Ala
 450 455 460

Gln Phe Leu Met His Met Gly Phe Asp Met Gln Thr Val Ala Gln Pro
 465 470 475 480

Gln Gly Leu Glu Pro Ser Glu Leu Leu Gly Met Leu Ser Asn Gly Ser
 485 490 495

<210> 555
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 555
 gagatcatca tccggagcca c

21

<210> 556
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 556
 tagcttccgt tgctcagcat c

21

<210> 557
 <211> 522
 <212> DNA
 <213> Homo sapiens

342-42PCT.txt

<400> 557
atgtaagcaa agtagtcatt aaaaatacac cctctacttg ggctttatac tgcatacaaa 60
tttactcatg agccttcctt tgaggaagga tgtggatctc caaataaaga tttagtgttt 120
attttgagct ctgcatctta acaagatgat ctgaacacct ctcttttgta tcaataaata 180
gccctgttat tctgaagtga gaggaccaag tatagtaaaa tgctgacatc taaaactaaa 240
taaatagaaa acaccaggcc agaactatag tcatactcac acaaaggagg aaattttaa 300
tcgaaccaag caaaaggctt cacggaaata gcatggaaaa acaatgcttc cagtggccac 360
ttcctaagga ggaacaaccc cgtctgatct cagaattggc accacgtgag cttgctaagt 420
gataatatct gtttctacta cggatttagg caacaggacc tgtacattgt cacattgcat 480
tatttttctt caagcgtaa taaaagtttt aaataaatgg ca 522

<210> 558
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 558
actacggatt taggcaacag g 21

<210> 559
<211> 24
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 559
gagatctcga gatctcgatc gtac 24

<210> 560
<211> 2383
<212> DNA
<213> Homo sapiens

<400> 560
cttttctctt gttgagtga aatggagaac agctgctcac gctcgtcgtc tgacatcagc 60
tatttctcag gatgaccctg cgagacaggc cagggtcatt agacccaatt tggttctcag 120
caaatatgtg tttattcctg catgcgtggg ccacaggctg gtttcttggg tgcaatgaat 180
agctgcaggt ttattagggg gtcttttttag atggatgtat gtttcccgat gtctatagaa 240
cactccggac cccggagagt gaagactctg cctgtcggac ttgctttgag aagatccttc 300
tccacctccc catggcagaa gttgcttcac agaggggaac agttttatgg atgtggctga 360
gaccttaaac ttgaggcaac ccatctgagg tggcatccag aggagactgg ctggcccctc 420

cttcaccttg	gatgtagtgc	tgtttctagg	atctcttttc	aatcagcaaa	acaggggatg	480
ttccaagagg	gtgtggatcc	cctgccatcc	cacatggtca	agtggagggg	acgggaaaaa	540
gctatgaagg	gtttgtgacc	acacagactc	tcttggtccc	ctgtcctttt	ggaaagaaga	600
cagggatgaa	atataatcaa	gcaattaacc	accccatca	tcaccaagaa	caacagtatc	660
aacaagaaga	acaggggacaa	caaaaccac	ggatgaaaca	ttcctttctc	agctcagatc	720
ttatctggtg	cgttctctct	ctgctctgtc	ttggtgtgtg	gtttagagaa	acatggacaa	780
cgctgttttg	aagaacaggt	gagcgagggt	ggggaatttc	agaggcctgg	gcccaccgcc	840
tccaccctt	ccccagttta	acctttgaca	ggatcttcac	ctctctctga	tcagcattgc	900
ttcttgttca	aaggcctcag	ccaccagct	gtgtcccttt	ccccagaaag	caagggcaga	960
tggcagtggg	tctgttgatg	agagaacttt	aaggggccaa	tcagtccctg	ggcaccctt	1020
cctgggctcg	ttttctccag	gaggctgcat	tctgatccat	aaaccttctc	ctcggggttt	1080
agggctcgagc	tgttcctgat	gtttatcgga	gactgggatc	aaagctatcc	aggtcataaa	1140
tctctctctg	tggctgttgg	gccccagggc	agctgaagag	ggttgacagc	cctttggacc	1200
tcaaaggaaa	aaatgtgctc	tactccaccc	actcccagct	ctgccaagaa	gctgtcctct	1260
gagaagccat	ggctgggccc	ttccattctg	gggagctgct	gaaaagagct	gggaggccga	1320
gaagaacttg	cgtgtgctgg	gggagaggaa	gcctggcctt	gagggagggg	tgcagggtgtg	1380
gctcctctgt	gtgtgggggc	tgggggacct	tgtgtgcctt	ttccttgtgg	ctgtgaaatg	1440
ctttatgagt	acttccatag	gaggatggac	agggagtcgg	ggagataaac	tcagccacaa	1500
ggccccaggg	cctcaggaaa	cttgcaccca	accctctcat	tttacagaag	aaaactgtgc	1560
ctggaagggt	gaagggtttg	ttcccagtc	cacaaccagg	gatccttagg	acagccagac	1620
caggaaacca	tttccaaact	gccaagccat	ggcagagtat	caagacctca	ggaaccatcg	1680
agacaccatg	gaagcattgg	gaaaagcctc	cttagctttt	gaagctcctc	attgttcttg	1740
agtgtgcatg	gagcccatga	ctgcgggggt	ttgtagacac	ctcagggatt	acatgactgg	1800
tacccttgac	aaagtcaagg	ctgctggaca	aaatgagtc	gaggatttca	ggggcagctg	1860
ggcgcaggag	ctggtgggct	gttgggagtg	cccctttact	gggcaggctt	ccttcctcct	1920
ggtgatgggg	ggttcctcag	cacaaaagtg	aagggggtga	ggggctggag	gagcaggaat	1980
ctctcttggt	gataggatatg	aggccttgaa	gtccttttct	ttgtcccagg	attcatggac	2040
gcttcggggc	tgatctttga	gttttcaagc	atgggggtga	gagacgttta	ggtaaactct	2100
taccgtcctc	tctcttcgtc	agggttccc	aggaatcaac	aatgcccagg	aagggaaggga	2160
ttgtagaaat	agcttaaccc	tttcatttac	caacgtggaa	attgaagccc	aggggaaggga	2220
agggaccggg	cgtggaaggg	agagccatca	gcagaaagag	accctgagat	cttcgcctgg	2280
gattcccagg	aagtccagcc	cgagctgatt	cacagaacaa	atgcatgcaa	accttgctat	2340

caataaatta cacatgcact tacgtaaaaa aaaaaaaaaa aaa 2383

<210> 561
<211> 21
<212> DNA
<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 561
cagagacgtt taggtaaact c 21

<210> 562
<211> 21
<212> DNA
<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 562
taccaacgtg gaaattgaag c 21

<210> 563
<211> 2336
<212> DNA
<213> Homo sapiens

<400> 563
aaaaaaaaacct atctaaggag gagccaagat ggccgcatag gaacagctcc agtccacagc 60
tcccagcgtg agcgacgcag aagacgggtg atttctgcat ttccatctga ggtaccgggt 120
tcttctcact agggagttcc agacagtggg cgcagcaggc ttttcttctt ggagctgaaa 180
caggcgcact ggcgagggtt gtgaggaaag gtttgcagcc ccctgccttg gtctgctata 240
gccagtgcac cgatcaatac cagggtgagc agcagaggaa gctcaggga gattatgaag 300
atgagaattc attacctatc aaagaaaatg cgtaaaactct agaagtattg cttgctcctt 360
tgccacaaag tgtacattca agagtaaatt gtttaaagcc aaagggcctt gcgccacgtc 420
cttagcctca gctttctact tgctaaaatg gaaataacaa cagtacctac cttacagacc 480
tggcgtgagg attaaattat accagcaaag tgcctggcac ctagaatttg cctgagttct 540
gatcaatgct aaaaacacca tttaacagtg ccctttcctg cctgggaagc ccacaaagat 600
ttcgcttttc acttattact catcaaactg actctgggtc acagtggaaa agagaagaaa 660
agctgatgga gaaatggcag tgaagaagga gaacaaaatg tcagagcaat acttttgagc 720
gacttatcct ctgttctgca atatttgcaa aagtcagtct atagacgtga agccaacagg 780
gaccctcagg cctgtgcac aggatgggtg gctgcctaag tcctctgggg acagcagtgc 840
cagaaggagt attggacaca gtgacccgac tgtatgagat gagaaaaaac aaaaacagga 900
ggtccgcagt actgatgaac taatctgtca ctcacaagct caggtctgca aaaaaaagaa 960

342-42PCT.txt

```

acgaagcact aaacatggcc ataagagatg gaaatgcaag tcttcatttc taaatgataa 1020
tcaaaccaac gatcagaaac tgattaactg tgtaattgaa ttgaattgaa aatcatccca 1080
tgaataacaa tccatcctac cttcaagggg ttaggaagct aactacaggt aattgctatc 1140
agaaatctga tttgatttcc aaaaattgtg tgaatgaacc aagtttcttc atcttgatat 1200
actaggcagg gagtttggtc ttccaagtac tagactgctt aattgcttgc ttgggggagg 1260
agaaatccta ggggaaaggc atatatgagc aatttctact ctgtgaagcc agcgctgtgt 1320
cctgagctgg atcatggcca gaaacagaaa agtctactct tccctacagt ggaagcaact 1380
gtggatattt catcctagga gtgaatgaaa aaacctaaag ctcatacttc atgggaatct 1440
ttcaatattc tgactgaaaa ctggttattt gctcctccaa cccaaagcca tctaggaaca 1500
gcactcagaa caggaaaaaa aaaagacaaa aataataatt attccaaaac gtatttgagc 1560
agaaacaaac acaaacattt gcattattaa atgggcttgt tcacacctgc tgagtagata 1620
taagacgata tttaagacaa gagctaaaaa ataaaccatc cctttctggt tttgagtgc 1680
agcagagcaa taaaaattat tttcacattc ttttccctat tgttagaagt aatcatttga 1740
gtaaatacac ttatctgtgc tgtaactatt gaaatgaatc caattcaa atgtatacca 1800
cctttctttt ttatatttct agatatgggt tcaatataga ctttctgact tttatgggtat 1860
acatatagga caatattcta ttcttctttc cttttaaata cttactgttt caatttcaaa 1920
taaaaaatca gcattctagt ttgtacattt tagcacagaa atgtttacaa ccttcagcac 1980
aattgctttt gtaatttact gacttggcat tttgaggcgt ttttaacaaa ttatgagaaa 2040
taacaccttc agaaagcatg tgactacttt gatgcaacta tttacaatgt attcataaga 2100
agtcattaac ctgtagagtt cttagacatg tggaaccttt aacaattata ctaaagagta 2160
catacaaaat acagagctat gtaataataa ctaattttta atcctgacaa attagaagtt 2220
aagcctacta tctgtaaaaa tatgtcctga ttcatttttt taagtatata cctgagcctt 2280
taaaaagtat atgcctttac aattgatttc caataacaa tactgaataa catact 2336

```

```

<210> 564
<211> 24
<212> DNA
<213> artificial

```

```
<220>
```

```
<223> Description of artificial sequence: Oligonucleotide
```

```
<400> 564
```

```
gcaatacttt tgagcgactt atcc
```

24

```

<210> 565
<211> 23
<212> DNA
<213> artificial

```

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 565

gatagcaatt acctgtagtt agc

23

<210> 566

<211> 1187

<212> DNA

<213> Homo sapiens

<400> 566

gaacaacatg gcttccccca gcgtgagact cgcttgtcct cccaccgcct gctctctcct	60
gatgaccagg ttccaggagt tatcaaagaa cagcctctga gctgcgtgga gaaagccatg	120
gagacagcca gaagaaaacg gcaggattag attaacctgt gattcctggc tggccacgag	180
gtcacccatg gcatggagct gccacaacg cccttctcag catgaagcat cctgaaagat	240
ccagggccag gttccccagg attggggagt tggaagctca ttggcactgt caaatttgaa	300
gaagaggcgt gctctgactg cctggacagg acccggaatc aaaccgcagg ccctgggtca	360
ccgctgccgg aaagagccag ttctgtccg tccatgcacc caccacaaa acccaggcct	420
tcctggaggt gctaggggag gccatgcccc ttttctgagt gcttggaagt gactgctgca	480
agtgacaagt gaccacgcct tttccccgcg gggataaat tcagaggcgc tgcgctccga	540
ttctggcagt gcagctgtgg gaacctctcc acgcgcacga actcagccaa cgatttctga	600
tagatttttg ggagtttgac cagagatgca aggggtgaag gagcgcttcc taccgttagg	660
gaactctggg gacagagcgc cccggccgcc tgatggccga ggcaggggtgc gaccaggac	720
ccaggacggc gtcgggaacc ataccatggc ccggatcccc aagaccctaa agttcgctgt	780
cgatcatcgtc gcggtcctgc tgccagtga tccccgcgc ggtccctggc tggggaagag	840
cgcacctggc gccgggaggg ggcagggaga cggggacacg gcagggatgc ctggccctgg	900
tcacctgcgg ccgggcatgt ccgggcagga cgaactcgcc gtcggagtca ggggaagaac	960
tgggtccccg ggctgggcag gagggaaccg gccgcgaggg agcagagagg cgggtccccct	1020
ggctgccccg agcccgcgaa gggaggggaag ttccagaatc gagagaggga gggagtcaag	1080
gtggaacca tagagtgagc ctctgaaga cacagagcgg ttgcctctct cattaattaa	1140
ttaattagtt aataaaatta accccatgtt taaaaaaaa aaaaaaa	1187

<210> 567

<211> 155

<212> PRT

<213> Homo sapiens

<400> 567

Met	Gln	Gly	Val	Lys	Glu	Arg	Phe	Leu	Pro	Leu	Gly	Asn	Ser	Gly	Asp
1				5					10					15	

Arg Ala Pro Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro Arg Thr
 20 25 30

Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro Lys Thr Leu
 35 40 45

Lys Phe Val Val Val Ile Val Ala Val Leu Leu Pro Val Ser Pro Arg
 50 55 60

Arg Gly Pro Trp Leu Gly Lys Ser Ala Pro Gly Ala Gly Arg Gly Gln
 65 70 75 80

Gly Asp Gly Asp Thr Ala Gly Met Pro Gly Pro Gly His Leu Arg Pro
 85 90 95

Gly Met Ser Gly Gln Asp Glu Leu Ala Val Gly Val Arg Gly Arg Thr
 100 105 110

Gly Ser Pro Gly Trp Ala Gly Gly Thr Arg Pro Arg Gly Ser Arg Glu
 115 120 125

Ala Val Pro Leu Ala Ala Pro Ser Pro Arg Arg Glu Gly Ser Ser Arg
 130 135 140

Ile Glu Arg Gly Arg Glu Ser Arg Trp Asn Pro
 145 150 155

<210> 568
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 568
 ggattgggga gttggaagct c

21

<210> 569
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 569
 agaaatcggt ggctgagttc g

21

<210> 570
 <211> 857

<212> DNA

<213> Homo sapiens

<400> 570

```

catccctctg gctccagagc tcagagccac ccacagccgc agccatgctg tgcctcctgc      60
tcaccctggg cgtggccctg gtctgtggtg tcccggccat ggacatcccc cagaccaagc     120
aggacctgga gctcccaaag ttggcagggg cctggcactc catggccatg gcgaccaaca     180
acatctccct catggcgaca ctgaaggccc ctctgagggg ccacatcacc tcaactgttg      240
ccacccccga ggacaacctg gagatcggtc tgcacagatg ggagaacaac agctgtgttg      300
agaagaaggt ccttgagag aagactgaga atccaaagaa gttcaagatc aactatacgg      360
tggcgaacga ggccacgctg ctcgatactg actacgacaa tttcctgttt ctctgcctac     420
aggacaccac cacccccac cagagcatga tgtgccagta cctggccaga gtccctggtg      480
aggacgatga gatcatgcag ggattcatca gggctttcag gcccctgccc aggcacctat     540
ggtacttgct ggacttgaaa cagatggaag agccgtgccg tttctaggtg agctcctgcc      600
tggctctgcc tcctggctca cctccgcctc caggaagacc agactccac ccttccacac     660
ctccagagca gtgggacttc ctccctgcct ttcaaagaat aaccacagct cagaagacga      720
tgacgtggtc atctgtgtcg ccacccctt cctgctgcac acctgcacca cggccatggg      780
gaggctgctc cctgggggca gagtctctgg cagaggttat taataaaccc ttggagcatg      840
aaaaaaaaaa aaaaaaa                                     857

```

<210> 571

<211> 180

<212> PRT

<213> Homo sapiens

<400> 571

```

Met Leu Cys Leu Leu Leu Thr Leu Gly Val Ala Leu Val Cys Gly Val
1           5           10          15

```

```

Pro Ala Met Asp Ile Pro Gln Thr Lys Gln Asp Leu Glu Leu Pro Lys
          20          25          30

```

```

Leu Ala Gly Thr Trp His Ser Met Ala Met Ala Thr Asn Asn Ile Ser
          35          40          45

```

```

Leu Met Ala Thr Leu Lys Ala Pro Leu Arg Val His Ile Thr Ser Leu
          50          55          60

```

```

Leu Pro Thr Pro Glu Asp Asn Leu Glu Ile Val Leu His Arg Trp Glu
65          70          75          80

```

```

Asn Asn Ser Cys Val Glu Lys Lys Val Leu Gly Glu Lys Thr Glu Asn
          85          90          95

```

Pro Lys Lys Phe Lys Ile Asn Tyr Thr Val Ala Asn Glu Ala Thr Leu
 100 105 110

Leu Asp Thr Asp Tyr Asp Asn Phe Leu Phe Leu Cys Leu Gln Asp Thr
 115 120 125

Thr Thr Pro Ile Gln Ser Met Met Cys Gln Tyr Leu Ala Arg Val Leu
 130 135 140

Val Glu Asp Asp Glu Ile Met Gln Gly Phe Ile Arg Ala Phe Arg Pro
 145 150 155 160

Leu Pro Arg His Leu Trp Tyr Leu Leu Asp Leu Lys Gln Met Glu Glu
 165 170 175

Pro Cys Arg Phe
 180

<210> 572
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 572
 agttcaagat caactatacg g 21

<210> 573
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 573
 tagaaacggc acggctcttc c 21

<210> 574
 <211> 4415
 <212> DNA
 <213> Homo sapiens

<400> 574
 agagaagcaa catctttaag gtactgaggg caggagaagt taatgtagaa tactatgcca 60
 gaaaaaataa attcccaaaa gtggaagtga aataaggaca tttagagatg tacaaaagct 120
 gaccgaattc actaccagtc aaccacact acaagaaaca tcaaagagt cctccaagca 180
 gaaggaaccc aataccagat gaaaatccag atctccacga ggaaatgaag aacaccagaa 240

342-42PCT.txt

atggatcggc	cctttcttca	aataagagca	gttggaataa	caaagctggt	cagttgtacc	300
cttggaatcc	actgaaatcc	tgggtaggga	agctccagta	ccaccaactg	gaaagactgg	360
gaatgcctaa	tagctggtag	tggccattgt	cgtaggcttt	gtccactctg	acaaactgaa	420
gatggggact	cgactcacct	tcgccagcca	caggaggacc	tccagacgag	gttaggtcga	480
cttcccgaata	acttttagatc	ctgaaacctc	acgggatttt	tcttctcttc	cctttgatct	540
ctcttccgct	tgctcaacag	gacaggactc	gctgcctttc	tttcccgtca	gaaagggatc	600
ccttgccggac	aggacctaag	tgagtagctg	gtttccccta	cttgctcttc	cgggcctggg	660
tgtctcggga	gctcaggctg	acgggagacc	taactaccgg	cgagtggagc	cagcaggagc	720
ctggaggggc	gcgcaccagg	gtggagggtt	ggtgccgggg	gttgagaaca	acagtcaaac	780
cctcttcttc	ccctggcacc	acgcacctgc	ccccggggac	gccgaacgaa	gtgggtcccta	840
aagctcctct	gcaggcccaa	ccgaaacagg	cctgaagctc	caggatgggc	gagaggatcc	900
tctttgagcg	aaaccagcct	tctgcctggc	tggccctggt	caacaccctg	ggaagaggcc	960
gatttggcgg	acagaacgga	agaaaagacc	taaaggtaga	atctcatgat	gtcgagatgt	1020
taaaacactc	aaattttaag	gttcgactgt	gagggggaga	taggggggtct	cgagcaggat	1080
cgaccctga	gccttcatct	gcagagtctt	gtgcaccagc	tcagaggaca	ggactatgtg	1140
caccaatggg	tctcatcagg	cggcaacttc	accctcacat	gcctcccca	tcctgctgg	1200
tacacaagac	cagcactagg	ggaagcccgg	agggagaatg	ttaaccctg	gcatttatct	1260
agtcagcaga	ggtgagggat	gctgctaaac	accttacaat	ccaccggagg	acaccgccc	1320
ccaccgaccc	cgaagtagcc	attccctgga	ggtggggaaa	ctcgctgta	gatcaatgcc	1380
cacgcacttg	gcggacagga	aatcacgaat	tggccactaa	ctggatcttg	gatctgagga	1440
aaaaattcca	gcgtcagagg	gaactctcgg	agatttgccc	agagcataag	gaacgtactc	1500
cttccctcag	tgatggatca	tcacatctgg	gggaaatcat	agacaatttc	ttttgtaggg	1560
cgaactctgc	tatacagttt	atgatgtcag	agtgaatact	ttctttgagt	tgcagtcaga	1620
aactgtagat	ttttaaaaa	ttaaaattca	ttattctctg	tcagtatttc	aaagtgtata	1680
cagaaagcta	ttgcactggt	caggagatgg	cgcctaacat	tttggaatt	caaggatgat	1740
aatgtccaga	taagactatc	tctcctggta	caaagtttga	caatgctgaa	cattttttaa	1800
ggttcttttt	gatatacaaa	gtgcaccaat	gagtgccttt	taattcttac	aataattctg	1860
ggtgaggtag	gtatttttcc	aattccatt	ttatgcttcg	gtagcccttt	gtattttatac	1920
ttcaaaacac	ttggctctct	tgtaattatt	taagaaatta	gttgtgatta	tttgtttaat	1980
gtgcaggagt	tacaaaaggc	aagcgtaga	acaagacaga	cctggttatg	attcctggct	2040
ctgaaagctg	tacaccctgt	gaccctagac	agggtgttta	atgcctcgct	gcctctgttt	2100
cttgctctgt	aaaatgtgaa	caataacagt	attggcctca	tgcttttttt	gggtttttaa	2160

342-42PCT.txt

agtaataatg	tggaacaaga	tcagtggagt	gcctggcatg	ctgaacccat	tccatgactg	2220
atagctatag	ttgttatgat	ttgtatcaat	ccattttcac	actgctataa	ggaactacct	2280
gagactgggt	aatctatgaa	gaaaagaggt	ttaattgact	cacagttctg	catggctggg	2340
agtcctcagg	aacttacaat	catggcagaa	ggggaagcaa	gacatttctt	atatggcagc	2400
aggacagaaa	gagagagagt	gaagggggaa	gtgccacaca	cttccaaaca	accatatctt	2460
gtgggttaatt	aaaaagtact	cattgggtgtg	ccttgtatag	aaaaaaatat	acactcacta	2520
tcatgagaac	agcaaggagg	gagtctgccc	ccaaggttca	atcacctccc	agtagacccc	2580
tcccctgaca	tgtggggatt	acaattcaag	atgagatttg	ggtggggaaa	cagagtcaaa	2640
ccatatcgtg	attgttctat	aataaagaga	tgcccacatg	tgtttcatca	gggacagtgc	2700
tcattaacca	gttgtcctgc	cgtaattatt	aatagtatcc	cctttgcttt	caaaagtgtc	2760
ctagtttaca	aaaagtatag	aaatggagga	cagaatagtg	gttgcccaag	attggaaaag	2820
ggtaagggta	aaggggtgcag	aggtggatgt	ggttataaaa	ggcaacatgg	gagatcctcg	2880
tagtgaagga	accgtttagt	atctccactg	tggtggtaga	taccgaacc	taaacatgtg	2940
aaaaattgca	tgaaactaaa	cacacacacc	aacaagtaca	agttaagtta	ggaaaatcca	3000
aataagattt	ctacattgta	tcaataggta	tatcttgatt	atgatattgc	aagatgggtac	3060
tattcaagga	aactgggtag	aggctacatg	agactccctt	gtattatttc	ctataactcc	3120
atgtgaatct	acaaggatct	caggattaag	gaagatatcc	tagtttgga	gataaaaaat	3180
atatcccagt	agtaatatcc	actgtccac	cagggcctga	ctaccttcta	taaaaagaag	3240
tgcttttgtt	cccctcaagt	tcctttat	ggttttat	ttcttcacag	tacctacctc	3300
cacttggcag	attacattta	ttttttcatc	tttcaacagc	tatttactga	atgcctacta	3360
gatgccaggc	ttgagatcta	gcaatgaaca	agatctctgt	gaaacttaca	ttccaggagg	3420
agaaataaat	aataaaccaa	aatataatc	agtaaattat	ttaatatgct	gggaaacaat	3480
atgtgtaatg	gaagaaatat	gtaaagtgat	ggattaggg	tctccagaga	aacagaacca	3540
acaattgact	catgtgatta	tggaggctga	gaagtctcaa	gatcacagtt	ggcaagcttg	3600
agacacagga	gagcccatgg	tgtgtttctg	atttgagtcc	aaaggcctga	gaaccaggag	3660
agatgatgg	gtgattacag	ttcaaaagct	ggcaggcttg	aggcccagga	agagccagt	3720
ttgcagttca	attccaaagg	caggaaaagg	ctgatatctt	agctgaagca	atcaggcaga	3780
aggagctctc	tcttactcat	gggcaggctca	gacttttggt	tctattcagg	cctttaagt	3840
attggatgag	gatcatctac	tgtggaaaga	aataagcttt	attcagtgt	ctgattcaaa	3900
tgttaatctc	atccaaaacc	atgctcacag	acacaccag	cataatgttt	gaccaagtat	3960
ctgggcacct	tgtggttcag	tcaaattaac	acatattaac	taccttagca	agatgaaaag	4020
cagtgaatgc	aggatgggtg	ttgaaat	aaatacg	gttatatagt	ctcattgaaa	4080

342-42PCT.txt

aaggaacatt tgagtgaaga cttgaagggg tgggtggaata aaccatttat ttgcttattg 4140
cctgtctccc tctatcagaa tgaaagcttc atgaagcgag agacttaatt tttatctgtt 4200
atatccctag tgcctggtgc agggtaagta ctcaaaaata tttgttgagt gaataagtaa 4260
tgattgagga tggggactgg tttgtatctg gttatatctc ttgtccttag cacagtacct 4320
ggcacatcct aagccatcca aaagagttgg ttatatgatt gtctttgaat tctatgactg 4380
tttataatat acagtaaact tcactgaaga cactg 4415

<210> 575
<211> 22
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 575
gaagaacacc agaatggat cg 22

<210> 576
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 576
cttcagtttg tcagagtggg c 21

<210> 577
<211> 484
<212> DNA
<213> Homo sapiens

<400> 577
tgtcagcttt gtctgtgcct cgcaaatcag aggcaaggga gaggttggtta ccaggggaca 60
ctgagaatgt acatttgatc tgccccagcc acggaagtca gagtaggatg cacagtacaa 120
aggagggggg agtggaggcc tgagaggga gtttctggag ttcagatact ctctgttggg 180
aacaggacat ctcaacagtc tcaggttcga tcagtgggtc ttttggcact ttgaaccttg 240
accacaggga ccaagaagtg gcaatgagga cacctgcagg aggggctagc ctgactccca 300
gaactttaag actttctccc cactgccttc tgctgcagcc caagcaggga gtgtccccct 360
cccagaagca tatcccagat gagtgggtaca ttatataagg atttttttta agttgaaaac 420
aactttcttt tctttttgta tgatggtttt ttaaccagc cattaaaaat gtttataaat 480
caaa 484

<210> 578
<211> 21

<212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: Oligonucleotide

 <400> 578
 cagccacgga agtcagagta g 21

<210> 579
 <211> 24
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: Oligonucleotide

 <400> 579
 ccactcatct gggatatgct tctg 24

<210> 580
 <211> 592
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (62)..(62)
 <223> n is a, c, g, t or u

 <400> 580
 ggtgcatgtt cattgggcat cttccattcg acccctttgc ccacgtggtg accgctgggg 60
 anctgtgaga gtgtgagggg cacgttccag ccgtctggac tctttctctc ctactgagac 120
 gcagcctata ggtccgcagg ccagtcctcc caggaactga aatagtgaat tatgagttgg 180
 cgaggaagat caacatatag gcctaggcca agaagaagtt tacagcctcc tgagctgatt 240
 ggggctatgc ttgaaccac tgatgaagag cctaaagaag agaaaccacc cactaaaagt 300
 cggaatccta cacctgatca gaagagagaa gatgatcagg gtgcagctga gattcaagtg 360
 cctgacctgg aagccgatct ccaggagcta tgtcagacaa agactgggga tggatgtgaa 420
 ggtggtactg atgtcaaggg gaagattcta caaaagcag agcactttaa aatgccagaa 480
 gcaggtgaag ggaaatcaca ggtttaaagg aagataagct gaaacaacac aaactgtttt 540
 tatattagat attttacttt aaaatatctt aataaagttt taagcttttc tc 592

<210> 581
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: Oligonucleotide

 <400> 581

attggggcta tgcttgaacc c

21

<210> 582
 <211> 21
 <212> DNA
 <213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 582

tttcccttca cctgcttctg g

21

<210> 583
 <211> 2514
 <212> DNA
 <213> Homo sapiens

<400> 583

actgggggtct tctccatgcg gctcgggcta tgacagcctc cgtgctcctc ccccccgct	60
ggatcgagcc caccgtcatg tttctctacg acaacggcgg cggcctggtg gccgacgagc	120
tcaacaagaa catggaagg ggcggcggcg ctgcagcagc ggctgcagcg gcggcggctg	180
ccggggccgg gggcgggggc ttccccacc cggcggtgc ggcggcaggg ggcaacttct	240
cgggtggcggc ggcggccgcg gctgcggcgg cggccgcggc caaccagtgc cgcaacctga	300
tggcgcaccc ggcgccttg gcgccaggag ccgcgtccgc ctacagcagc gccccgggg	360
aggcgcccc gtcggctgcc gccgctgctg ccgcggctgc cgtgcagcc gccgccgccg	420
ccgcgcgctc gtccctcgga ggtcccggcc cggcggggcc ggcgggcgca gaggcgcga	480
agcaatgcag cccctgctcg gcagcggcgc agagctcgtc gggggccgcg gcgctgccct	540
atggctactt cggcagcggc tactaccgct gcgcccgcac gggcccgcac cccaacgcca	600
tcaagtctg cgcgagccc gcctcggcgg ccgcgcgcgc cgccttcgcg gacaagtaca	660
tggataccgc cggcccagct gccgaggagt tcagctccc cgttaaggag ttgccttct	720
accaccagg ctacgcagcc gggccttacc accaccatca gcccatgcct ggctacctgg	780
atatgccagt ggtgccgggc ctcgggggcc ccggcgagtc gcgccacgaa cccttgggtc	840
ttcccatgga aagctaccag ccctgggcgc tgcccaacgg ctggaacggc caaatgtact	900
gccccaaaga gcaggcgcag cctccccacc tctggaagtc cactctgcc gacgtggtct	960
cccatccctc ggatgccagc tcctatagga gggggagaaa gaagcgcgtg cttatacca	1020
aggtgcaatt aaaagaactt gaacgggaat acgccacgaa taaattcatt actaaggaca	1080
aacggaggcg gatatcagcc acgacgaatc tctctgagcg gcaggtcaca atctggttcc	1140
agaacaggag ggttaaagag aaaaaagtca tcaacaaact gaaaaccact agttaatgga	1200
ttaaaaaatag agcaagaagg caacttgaag aaacgcttca gaactcgttg ctttgcccag	1260
ataatgataa taatgcttaa taataattga agaatgggaa agagaaagag acagagactg	1320

342-42PCT.txt

```

gcatttttct ctcccgaagg agatctcttt ctctttaatg gaatctacaa ctgtttttaa 1380
actttaagaa aggtaaagac tgccagttct tccgccaacc ccatcagccc agcccgttaa 1440
atgtcaaacg tcaaccccc aataacgcaa tttcagataa gttacgcagt tactgaaatc 1500
ttgtaagtat ttaagtgatc gttacatttt aggacactgc gttagatggg aataatctgg 1560
aagttgggta caaacgcaag aggccattgt aaacatctgc ttgtccttct taggtcgcca 1620
ttccctttgc atgttaagcg tctgctcagg taaatcttag tgaaattcct accgttggtg 1680
tacgttctgc aaaacatttt atgtatagat ttagagggga aacgagaagg tactgaaata 1740
atgatcttgg aatatttgct gtgaaggag aaaggagag aaaactcttc tgaggatcat 1800
ttgtcttggg agtatagtaa aaccaaccag ctgaaccttt caggctacaa gagaaccggg 1860
gtcggtaatg tctttttaag aataattttt aattgcttat aacaagcata ttttgtggca 1920
tttgaactat atttactgct ccaatatccg ttattttcca aaggattttg tatctttttg 1980
aaaatgttta catcatcaga tgatccacag aattcacttt atgtgagatc tcccgagagt 2040
ttccatccca acataatgga ctttggtttg aacacaattc gttttttcat ttgaattggc 2100
atttcccaat atttgctaaa catttgctgg agaaatcatt tttctttttt cttttttaga 2160
aaactcagaa tgaaaattca ttccctgaa atatttaggt gtctatattc tatattttga 2220
tctattaagg gattagtatt ttccatggt tattgtggtt tcagagtgc ttagaaagat 2280
tagtgattca tcttcacagc acatttttaa tcaagcaggt atttcaacca gcacattcgt 2340
tttgttcata ttcactatag aatgatatct tgtaaataaa gacattcagc aactgtgaa 2400
aatgtatttg tgcacctgct ttttaaatat ttctactaaa aatgaaaaaa aaaaaccctt 2460
agacctgtag atagtgatat cgtaatatta attgtaata aaatagtcac tgcc 2514

```

<210> 584
 <211> 388
 <212> PRT
 <213> Homo sapiens

<400> 584

```

Met Thr Ala Ser Val Leu Leu His Pro Arg Trp Ile Glu Pro Thr Val
1           5           10           15

```

```

Met Phe Leu Tyr Asp Asn Gly Gly Gly Leu Val Ala Asp Glu Leu Asn
          20           25           30

```

```

Lys Asn Met Glu Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
          35           40           45

```

```

Ala Ala Ala Gly Ala Gly Gly Gly Gly Phe Pro His Pro Ala Ala Ala
          50           55           60

```


342-42PCT.txt

Ala Ala Gly Gly Asn Phe Ser Val Ala Ala Ala Ala Ala Ala Ala Ala
 65 70 75 80

Ala Ala Ala Ala Asn Gln Cys Arg Asn Leu Met Ala His Pro Ala Pro
 85 90 95

Leu Ala Pro Gly Ala Ala Ser Ala Tyr Ser Ser Ala Pro Gly Glu Ala
 100 105 110

Pro Pro Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 115 120 125

Ala Ala Ala Ala Ala Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Pro
 130 135 140

Ala Gly Ala Glu Ala Ala Lys Gln Cys Ser Pro Cys Ser Ala Ala Ala
 145 150 155 160

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

Gly Tyr Tyr Pro Cys Ala Arg Met Gly Pro His Pro Asn Ala Ile Lys
 180 185 190

Ser Cys Ala Gln Pro Ala Ser Ala Ala Ala Ala Ala Ala Phe Ala Asp
 195 200 205

Lys Tyr Met Asp Thr Ala Gly Pro Ala Ala Glu Glu Phe Ser Ser Arg
 210 215 220

Ala Lys Glu Phe Ala Phe Tyr His Gln Gly Tyr Ala Ala Gly Pro Tyr
 225 230 235 240

His His His Gln Pro Met Pro Gly Tyr Leu Asp Met Pro Val Val Pro
 245 250 255

Gly Leu Gly Gly Pro Gly Glu Ser Arg His Glu Pro Leu Gly Leu Pro
 260 265 270

Met Glu Ser Tyr Gln Pro Trp Ala Leu Pro Asn Gly Trp Asn Gly Gln
 275 280 285

Met Tyr Cys Pro Lys Glu Gln Ala Gln Pro Pro His Leu Trp Lys Ser
 290 295 300

Thr Leu Pro Asp Val Val Ser His Pro Ser Asp Ala Ser Ser Tyr Arg
 305 310 315 320

342-42PCT.txt

Arg Gly Arg Lys Lys Arg Val Pro Tyr Thr Lys Val Gln Leu Lys Glu
325 330 335

Leu Glu Arg Glu Tyr Ala Thr Asn Lys Phe Ile Thr Lys Asp Lys Arg
340 345 350

Arg Arg Ile Ser Ala Thr Thr Asn Leu Ser Glu Arg Gln Val Thr Ile
355 360 365

Trp Phe Gln Asn Arg Arg Val Lys Glu Lys Lys Val Ile Asn Lys Leu
370 375 380

Lys Thr Thr Ser
385

<210> 585
<211> 24
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 585
tctggaagtc cactctgccc gacg 24

<210> 586
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 586
tgtgacctgc cgctcagaga g 21

<210> 587
<211> 8769
<212> DNA
<213> Homo sapiens

<400> 587
atttagaggc ggcgccaggg cggccgcgga gaaacgtgac acaccagccc tctcggaggg 60
gtttcggacc gaaggggaaga agctgcgcgc tgctgctcgt ctccctgcgc gccgcgggca 120
cttctcctgg gctctccccg aactctcccc cgacctctgc gcgccctcag gccgccttcc 180
ccgccttggg ctcgggacaa cttctggggg ggggtgcaaa gaaagtttgc ggctcctgcc 240
gccggcctct ccgcctcttg gcctaggagg ctgcgcgccc gcgcccgtc gttcggcctt 300
gccccgggacc gcgtcctgcc ccgagaccgc caccatgaac aagctttaca tcggcaacct 360
caacgagagc gtgacccccg cggacttgga gaaagtgttt gcggagcaca agatctccta 420

cagcggccag	ttcttggtca	aatccggcta	cgccttcgtg	gactgcccgg	acgagcactg	480
ggcgatgaag	gccatcgaaa	ctttctccgg	gaaagtagaa	ttacaaggaa	aacgcttaga	540
gattgaacat	tcggtgcccc	aaaaacaaag	gagccggaaa	attcaaattcc	gaaatattcc	600
accccgactc	cgatgggaag	tactggacag	cctgctgggt	cagtatggta	cagtagagaa	660
ctgtgagcaa	gtgaacaccg	agagtgagac	ggcagtgggt	aatgtcacct	attccaaccg	720
ggagcagacc	aggcaagcca	tcatgaagct	gaatggccac	cagttggaga	accatgcctt	780
gaaggtctcc	tacatccccg	atgagcagat	agcacaggga	cctgagaatg	ggcgccgagg	840
gggctttggc	tctcggggtc	agccccgcca	gggctcacct	gtggcagcgg	gggccccagc	900
caagcagcag	caagtggaca	tcccccttcg	gctcctgggt	cccaccagct	atgtgggtgc	960
cattattggc	aaggaggggg	ccaccatccg	caacatcaca	aaacagaccc	agtccaagat	1020
agacgtgcat	aggaaggaga	acgcaggtgc	agctgaaaaa	gccatcagtg	tgcactccac	1080
ccctgagggc	tgctcctccg	cttgtaagat	gatcttggag	attatgcata	aagaggctaa	1140
ggacacaaa	acggctgacg	aggttcccct	gaagatcctg	gcccataata	actttgtagg	1200
gcgtctcatt	ggcaaggaag	gacggaacct	gaagaaggta	gagcaagata	ccgagacaaa	1260
aatcaccatc	tctcgttg	aagaccttac	cctttacaac	cctgagagga	ccatcactgt	1320
gaagggggcc	atcgagaatt	gttgcaaggc	cgagcaggaa	ataatgaaga	aagtccggga	1380
ggcctatgag	aatgatgtgg	ctgccatgag	cctgcagtct	cacctgatcc	ctggcctgaa	1440
cctggctgct	gtaggtcttt	tcccagcttc	atccagcgca	gtcccgcgcg	ctcccagcag	1500
cgttactggg	gctgctccct	atagctcctt	tatgcaggct	cccagcagg	agatgggtgca	1560
ggtgtttatc	cccggccagg	cagtgggcgc	catcatcggc	aagaaggggc	agcacatcaa	1620
acagctctcc	cggtttgcca	gcgcctccat	caagattgca	ccacccgaaa	cacctgactc	1680
caaagttcgt	atggttatca	tactggacc	gccagaggcc	caattcaagg	ctcagggaag	1740
aatctatggc	aaactcaagg	aggagaactt	ctttgggtccc	aaggaggaag	tgaagctgga	1800
gaccacata	cgtgtgccag	catcagcagc	tggccgggtc	attggcaaag	gtggaaaaac	1860
ggtgaacgag	ttgcagaatt	tgacggcagc	tgaggtggta	gtaccaagag	accagacccc	1920
tgatgagaac	gaccaggtca	tctgaaaat	catcgacat	ttctatgcca	gtcagatggc	1980
tcaacggaag	atccgagaca	tcttgcccca	ggttaagcag	cagcatcaga	agggacagag	2040
taaccaggcc	caggcacgga	ggaagtgacc	agccccctccc	tgtcccttcg	agtccaggac	2100
aacaacgggc	agaaatcgag	agtgtgctct	ccccggcagg	cctgagaatg	agtgggaatc	2160
cgggacacct	gggcccgggt	gtagatcagg	tttgcccact	tgattgagaa	agatgttcca	2220
gtgaggaacc	ctgatctctc	agccccaaac	accaccccaa	ttggcccaac	actgtctgcc	2280
cctcgggggtg	tcagaaattc	tagcgcaagg	cactttttaa	cgtggattgt	ttaaagaagc	2340

342-42PCT.txt

tctccaggcc	ccaccaagag	ggtggatcac	acctcagtgg	gaagaaaaat	aaaatttcct	2400
tcaggtttta	aaaacatgca	gagaggtgtt	ttaatcagcc	ttaaaggatg	gttcatttct	2460
tgaccttaat	gtttttccaa	tcttcttccc	cctacttggg	taattgatta	aaatacctcc	2520
atttacggcc	tctttctata	tttactactaa	tttttttatc	tttattgcta	ccagaaaaaa	2580
atgcgaacga	atgcattgct	ttgcttacag	tattgactca	agggaaaaga	actgtcagta	2640
tctgtagatt	aattccaatc	actccctaac	caataggtac	aatacggaat	gaagaagagg	2700
ggaaaatggg	gagaaagatg	gttaaaatac	ataataatcc	acgtttaaaa	ggagcgcact	2760
tgtggctgat	ctatgccaga	tcaccatctt	caaattggca	caactgaaat	ttccccactc	2820
tgttggggct	ttcccaccac	attcatgtcc	ctctcccgtg	taggtttcac	attatgtcca	2880
ggtgcacata	ggtggtattg	aatgctcagc	agggtagggg	ctgaccactg	ttcctgattc	2940
ccatcgttct	caggcggatt	ttatatTTTT	ttaaagtcta	ttttaatgat	tggatatgag	3000
cactgggaag	gggacgctaa	ctccccctga	taaagtctcg	gttccatgga	ggacttgagt	3060
ggcccccagg	gctgccacgg	tgccttcacc	ccagcccatg	tgctcccata	agggtcggtt	3120
cctagaggca	ggggttgtgg	ggcactccca	gccacggcac	tgttaccttg	gtggtgggac	3180
ttggaacca	accctgagct	cccgataaag	ctaaagtcca	tcactctggca	aattcagtaa	3240
attggagagt	acttgcttct	gtttgtatct	gagaggaatt	tttaactgac	ggcttctgtc	3300
tccatgaatc	attatcagca	tgatgaaagg	tgtgtctaaa	aaacaattca	gaataccagc	3360
agcattgtac	agcaaggggt	aaataagctt	aatttattaa	tttaccaggc	ttaattaaga	3420
tcccatggag	tgtttagccc	ttgtgggaga	cagaagccat	cagttaaattg	aggttaggcc	3480
tctcctccta	atatactgat	tgacaatgca	tatttagccag	gtaatgcact	ttagctaccc	3540
tggaacaatgc	tatcaagtgt	gctgggaagg	gaggaaggcc	tctctacata	tggaagagcc	3600
catgcgtgga	gttccccctc	tttcaacatt	gcaacaacag	taacaacaag	acaaccgcaa	3660
catgtgggcg	tagtcaggca	atgctgtgtg	cgaagtaaac	tacctcaagg	tatgaagtta	3720
cctcagcaat	tatttttcctt	tttgttcccc	ccaaccccat	taaaaaaatt	tttttttgat	3780
ttttgttttt	ttgcagcttg	ctgatatttt	atataaaaaa	gaaaagcaaa	gcaaaagaga	3840
agctgatagt	cttgaatatt	ttattttttt	aatgaaaaga	aaaaacaaga	aagttatggt	3900
tcataatttc	ttacaacatg	agccagtaac	cctttaggaa	ctctctatgg	agaacaggcc	3960
tggtgggaaa	ggctttgggg	gctgccccct	taggaggagg	ctagtgtcta	gagggaaggc	4020
ccaggtttga	gagagcccag	aggggcagag	cccagagcct	tgtttgcccc	tgatctctga	4080
cttctagagc	cccagctgct	ggcggctgct	ggaatatcct	acctgatagg	attaaaaggc	4140
ctagtggagc	tggtgggtct	cagtgggtta	acaatgccca	acaaccaacc	agctggccct	4200
tggtctctct	tctttctctc	tttggttaaa	gagcatctca	gccagctttt	cccaccagtg	4260

gtgctgttga gatatttttaa aatattgcct ccgtttttatc gaggagagaa ataataacta 4320
 aaaaatatac cttttaaaaa aacctatatt tctctgtcta aaaatatggg agctgagatt 4380
 ccgttcgtgg aaaaaagaca aggccaccct ctcgccctca gagaggtcca cctggtttgt 4440
 cattgcaatg cttttcattt tttttttttg ttattgtttc atttcagttc cgtcttgcta 4500
 ttcttccctaa tctatatcca tagatctaag gggcaaacag atactagtta actgccccca 4560
 cctctgtctc cctgtcttct ttagatcggt ctgattgatt ttaaaagtgg acccaaactt 4620
 aggaattct tgatttaggg tggctgggtg caaggagggg caggggatat ggggacgtga 4680
 ctgggacagg ttctgcctt atcattttct cctaggaca ttcccttgta gccccagaa 4740
 ttgtctggcc caaattgaat agaagcagaa aaacatttag ggataacatc aggccagtag 4800
 aattaagcct ctccacctgt cccaaccata aaaaggtct cccagctttc catctctggc 4860
 tctatatgct ttatcccaa acaaagcaga taacgttcag acgtcggcca tttagtaatt 4920
 taaagcgaat ttccagcagc aagcatgctt tgatatctgg ttcagactat catcaggaag 4980
 aaaaaaaaaat ccacagtag ctgaaatgtg attgttgcag tgttcagttt ccttgggggc 5040
 ctgctccctt cacaccttga gcccagtc ttttcggtt gctgattcag ctcccagaag 5100
 agacgaggaa gtgtgtggca agggactgga aaacttcaact tgcttggatt aggcaaggct 5160
 ccactcattg ttgatatttg ccagcagga aaatcatgta agttatacca ccagaaagca 5220
 aaaggagcat ggtttggtgg ttaaggttta gtgggatgaa ggacctgtct tgggtgggccg 5280
 ggccctcttg tgccccgtag gctaggtctt agggcaactc cttgccctcc tgctcagcac 5340
 ctccatttcc ccatccttgg tgagataaca agctatcgcg aaaagcactt gggagatttg 5400
 gatgatttga gaagagtgc ttaaaaaaaaa tgcttctgtg ctctaagata tatatgtgtg 5460
 tgtgtgtgct acatatatat ttttaagaaa ggaccatctc tttaggatat atttttaaat 5520
 tctttgaaac acataaccaa aatggtttga ttcactgact gactttgaag ctgcatctgc 5580
 cagttacacc ccaaattggct ttaatccct ctgggtctg gttgcctttt gcagtttggg 5640
 ttgtggactc agctcctgtg aggggtctg ttaggagaga gccattttta aggacagga 5700
 gttttatagc ctttttctac tttcctcccc tctcccagt ctttatcaat cttttttcct 5760
 ttttctgac cccctcctt tggaggcagt tgggagctat ccttgtttat gcctcactat 5820
 tggcagaaaa gacccattt aaaaccaga gaacactgga ggggatgct ctagttgggt 5880
 ctgtgtccat tttcctctgt gccaaagaca gacagacaga ggctgagaga ggctgttcct 5940
 gaatcaaagc aatagccagc tttcgacaca tacctggctg tctgaggagg aaggcctcct 6000
 ggaaactggg agctaagggc gaggccctt ccttcagagg ctctggggg attaggggtg 6060
 ggtgtttgcc aagccaaggg gtagggagcc gagaaattgg tctgtcggct cctggttgca 6120
 ctttggggaa ggagaggaag tttggggctc caggtagctc cctgttgtgg gactgctctg 6180

tccccctgccc	ctactgcaga	gatagcactg	ccgagttccc	ttcaggcctg	gcagacgggc	6240
agtgaggagg	ggcctcagtt	agctctcaag	gggtgccttcc	cctcctccca	acccagacat	6300
accctctgcc	aaactgggaa	ccagcagtgc	tagtaactac	ctcacagagc	cccagagggc	6360
ctgcttgagc	cttcttgctc	cacaggagaa	gctgggtgct	ctaggcaacc	ccttcctccc	6420
acctctcatc	aggggtgggg	gttctccttt	ctttcccctg	aagtgtttat	ggggagatcc	6480
tagtggcctt	gccattcaaa	ccactcgact	gtttgcctgt	ttcttgaaaa	ccagtagaag	6540
ggaaacagca	cagcctgtca	cagtaattgc	aggaagattg	aagaaaaatc	ctcatcaatg	6600
ccaggggaca	taaaagccat	ttcccttcca	aatactcgac	aatttagatg	cagaacattt	6660
ctctgtattc	agacttagag	taacaccagc	tgaaaactgc	agtttctttc	ctttggatac	6720
ataaggcttc	tctatcgggg	tacgggacag	ggaggaggcc	tcatgtctga	agggggattt	6780
aggggcgaga	gccccagccc	tgaccctcgg	tcctgtgcac	cgctttgggg	cacagtctga	6840
tgggcgcctt	gctggcgcct	tagtatgggt	gactccggat	ggacaaaaga	aaaaaaattt	6900
tttttcttga	atgaaatagc	aggaagctcc	tcgggagcat	gtgttttgat	taaccgcagg	6960
tgatggatgc	tacgagtata	aatggattaa	ctacctcaat	ccttacagta	agattggaac	7020
taagggcagg	gactcatgca	taagggtatg	aatcccagcc	aggacaagtg	agttgaggct	7080
tgtgccacaa	aaggtttgct	cttgggggaa	aggcaggcct	gccaggatcc	cccccatatc	7140
gattgggctg	ggagggctgg	ccatgaggtc	cccactttct	gctttccttg	cccatgtgtc	7200
acccttttgg	cctccagctt	gtccctctct	cactttctat	agctttgttg	gaccagatgg	7260
tgaggaaagg	aatggcctct	tcccttctag	agggggctgg	ctggagtga	acctggggct	7320
tggcctggaa	cccaccacac	agcccccag	tcaggaagcc	tggggaaacc	agagctgaga	7380
cctcttcaac	agggtttctt	tgagatccta	cacctccatt	gggccctttt	tcagtcttca	7440
atgggggccc	agttggctct	agaaggagaa	gaggtgaagc	aggatccttt	gccctggggg	7500
agtctgaggg	cgcggtcctt	ggactcattc	aggcgtctt	tgtagtggg	ggagttccac	7560
tgggcatcc	cagccctcc	ccaccacccc	tctaattggac	ctcctcatag	aagccccatt	7620
tcacttttgt	tttatctacc	tcttagcaaa	acaatagata	aattaggtag	tggcagctcc	7680
acttgcttag	gttagggggg	gaaaaagatt	tctttttcca	aaggaaaaaa	atattacctt	7740
gagaatactt	tccaaaaaat	aaaattaaaa	aaaaaaaaaac	caaaaaaaaa	aatttttttt	7800
taaaaggagg	acattttcca	gtgaccactg	gattgtttta	atttcccaag	cttttttttc	7860
cccataaat	aagtttcact	ctttggcgat	tttcttcact	tgtttaagat	aacgtgctag	7920
ctattccaac	aggtaacagc	tttcacagtc	tgcccctggc	ctgtctcacc	ccatccccc	7980
ccctattcct	gccagtgagt	ccttcctgtg	cttctctccc	ttctcccctc	ccagccagct	8040
gacttcagtc	accctgtgcc	cccctcccct	gccaataagc	tccccagga	ataaaggctt	8100

```

tgttttgggg atgcttaaat cttgactggc acttcccggc tgtgggggct ggggagccac 8160
ttgtaacatt tctgtgcaga ttttatgtta gccactgcta tgtaaaagca cgttcaaaat 8220
gaatttcagc agattatgtg ttaccataat gaataaacgt cctctatcac catttggagt 8280
ctcccttttc tccaggatct tgatcctggc ccccaaaacc agagtgaatc aaaagagctt 8340
cctcccctga ggcaaagtgg atttgtaagc agttctgaaa catcacttac tcagaagagg 8400
gaacgatgta ttttgatgag tgcaaattgg gaagagctgg aggcctactg cttgggacag 8460
tttttttttt tttttttttt ttaaatatga gtgctagctt attctgtaat tgcggcaact 8520
ttgaaaattg tattttactg gaaatctgcc agccatcacc acccgatttt gattgtatcc 8580
ttcctcccat cttttaatct gttcattgct ttgggggagg tggggcagct ggctcacacg 8640
ttggagtttg ttctttgatg gatgaacgaa cactccagtt ttctttcccg tgaaggttgt 8700
ttcagccaca aaccattca ttttgctgtt tcaatttcaa aataaaagga aacttatatt 8760
gaaagacaa 8769

```

<210> 588
 <211> 577
 <212> PRT
 <213> Homo sapiens

<400> 588

Met Asn Lys Leu Tyr Ile Gly Asn Leu Asn Glu Ser Val Thr Pro Ala
 1 5 10 15

Asp Leu Glu Lys Val Phe Ala Glu His Lys Ile Ser Tyr Ser Gly Gln
 20 25 30

Phe Leu Val Lys Ser Gly Tyr Ala Phe Val Asp Cys Pro Asp Glu His
 35 40 45

Trp Ala Met Lys Ala Ile Glu Thr Phe Ser Gly Lys Val Glu Leu Gln
 50 55 60

Gly Lys Arg Leu Glu Ile Glu His Ser Val Pro Lys Lys Gln Arg Ser
 65 70 75 80

Arg Lys Ile Gln Ile Arg Asn Ile Pro Pro Gln Leu Arg Trp Glu Val
 85 90 95

Leu Asp Ser Leu Leu Ala Gln Tyr Gly Thr Val Glu Asn Cys Glu Gln
 100 105 110

Val Asn Thr Glu Ser Glu Thr Ala Val Val Asn Val Thr Tyr Ser Asn
 115 120 125

342-42PCT.txt

Arg Glu Gln Thr Arg Gln Ala Ile Met Lys Leu Asn Gly His Gln Leu
 130 135 140

Glu Asn His Ala Leu Lys Val Ser Tyr Ile Pro Asp Glu Gln Ile Ala
 145 150 155 160

Gln Gly Pro Glu Asn Gly Arg Arg Gly Gly Phe Gly Ser Arg Gly Gln
 165 170 175

Pro Arg Gln Gly Ser Pro Val Ala Ala Gly Ala Pro Ala Lys Gln Gln
 180 185 190

Gln Val Asp Ile Pro Leu Arg Leu Leu Val Pro Thr Gln Tyr Val Gly
 195 200 205

Ala Ile Ile Gly Lys Glu Gly Ala Thr Ile Arg Asn Ile Thr Lys Gln
 210 215 220

Thr Gln Ser Lys Ile Asp Val His Arg Lys Glu Asn Ala Gly Ala Ala
 225 230 235 240

Glu Lys Ala Ile Ser Val His Ser Thr Pro Glu Gly Cys Ser Ser Ala
 245 250 255

Cys Lys Met Ile Leu Glu Ile Met His Lys Glu Ala Lys Asp Thr Lys
 260 265 270

Thr Ala Asp Glu Val Pro Leu Lys Ile Leu Ala His Asn Asn Phe Val
 275 280 285

Gly Arg Leu Ile Gly Lys Glu Gly Arg Asn Leu Lys Lys Val Glu Gln
 290 295 300

Asp Thr Glu Thr Lys Ile Thr Ile Ser Ser Leu Gln Asp Leu Thr Leu
 305 310 315 320

Tyr Asn Pro Glu Arg Thr Ile Thr Val Lys Gly Ala Ile Glu Asn Cys
 325 330 335

Cys Arg Ala Glu Gln Glu Ile Met Lys Lys Val Arg Glu Ala Tyr Glu
 340 345 350

Asn Asp Val Ala Ala Met Ser Leu Gln Ser His Leu Ile Pro Gly Leu
 355 360 365

Asn Leu Ala Ala Val Gly Leu Phe Pro Ala Ser Ser Ser Ala Val Pro
 370 375 380

342-42PCT.txt

Pro Pro Pro Ser Ser Val Thr Gly Ala Ala Pro Tyr Ser Ser Phe Met
385 390 395 400

Gln Ala Pro Glu Gln Glu Met Val Gln Val Phe Ile Pro Ala Gln Ala
405 410 415

Val Gly Ala Ile Ile Gly Lys Lys Gly Gln His Ile Lys Gln Leu Ser
420 425 430

Arg Phe Ala Ser Ala Ser Ile Lys Ile Ala Pro Pro Glu Thr Pro Asp
435 440 445

Ser Lys Val Arg Met Val Ile Ile Thr Gly Pro Pro Glu Ala Gln Phe
450 455 460

Lys Ala Gln Gly Arg Ile Tyr Gly Lys Leu Lys Glu Glu Asn Phe Phe
465 470 475 480

Gly Pro Lys Glu Glu Val Lys Leu Glu Thr His Ile Arg Val Pro Ala
485 490 495

Ser Ala Ala Gly Arg Val Ile Gly Lys Gly Gly Lys Thr Val Asn Glu
500 505 510

Leu Gln Asn Leu Thr Ala Ala Glu Val Val Val Pro Arg Asp Gln Thr
515 520 525

Pro Asp Glu Asn Asp Gln Val Ile Val Lys Ile Ile Gly His Phe Tyr
530 535 540

Ala Ser Gln Met Ala Gln Arg Lys Ile Arg Asp Ile Leu Ala Gln Val
545 550 555 560

Lys Gln Gln His Gln Lys Gly Gln Ser Asn Gln Ala Gln Ala Arg Arg
565 570 575

Lys

<210> 589
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 589
atttctatgc cagtcagatg g

<210> 590
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 590
 gtgggcaaac ctgatctaca g 21

<210> 591
 <211> 5016
 <212> DNA
 <213> Homo sapiens

<400> 591
 taacattctg ttcttcgcg tgatggattt tcttttgag attcgaactg aagcctgtac 60
 ggaggaaatg ttgtttttaa gggaaatgaa tagaaacaat ccactttgaa gaagccatgg 120
 cgaaatcaaa gacaaaacat agactttggt ctcaggaatc ttcagtatct gccctgctgg 180
 caagctgcac cctgagtggg agtaattcct ctaattctga tggctcgttt cactataaag 240
 ataagctgta cagatctgct tctcaagctc tacaggctta tattgatgat tttgatctag 300
 gccaaatata tcttggtgca agcactggaa aaattaacat tgatgaggat ttactaata 360
 tgtcacagtt ctgcaactat atttacaac caaacaatgc ttttgaaaac cttgatcacg 420
 aaaagcactc aaacttcata tctgttagaa gacacatcgt taatgacata gactccatga 480
 gcctaacaac tgatgatcta ttaagactcc cagcagatgg atcattttct tatacttatg 540
 ttggaccgag tcaccgaacg agcaagaaaa acaagaaatg ccgtggaagg ctgggttcat 600
 tggacattga gaagaatcca ctttttcaag gaccctacac ttccatgggc aaggataact 660
 ttgttactcc tgttatacgc tcaaataaa atggaaagca atgtggtgac aaaattgaat 720
 tgcttatctt gaaggccaag agaaatctag agcagtgtac tgaagaatta ccaaagtcca 780
 tgaaaaagga tgacagtcct tgctcattag ataaacttga agcagacaga tcatgggaaa 840
 atattcctgt tactttcaaa tctcctgttc ccgttaactc tgatgatagt cctcaacaaa 900
 cttcaagggc aaagagtgct aaaggggttc ttgaagactt tctaaataat gataatcaga 960
 gctgtactct ctctggaggc aaacatcatg gtcctgttga agccctgaaa caaatgttat 1020
 ttaaccttca agcagtacaa gaacgtttta atcaaaataa gaccacagat ccaaaagaag 1080
 agattaaaca agtttcagaa gatgatttct ctaaattaca gttgaaggaa agtatgatcc 1140
 ctattactag gtcacttcag aaggctttgc accatttata tcgcctgaga gacctggttg 1200
 atgatacgaa tggagaacgg tcaccgaaaa tgtgaagagg aaaatgaaac tgtcaccacg 1260
 ataaatagtc accacagaac aaatagcat tttttctatt acttaaactg acaaagtaaa 1320
 tataagccat acattatatt gtgggttggt caaggattat atatttctaa aacactaaac 1380

ttgaaaatac ccataggttt tgggacctat ctttattttg tgccaacata ctagaatgtg	1440
aactgcaagg acccacaatg taccctgaag tcttactttc gccttctggc cagcaaatgt	1500
ctaataattta aagatggatg acttctgttc ttgaagctta cctggattta accttcttca	1560
gcatcctcaa cattttatta cctgggttcag gatcattaag aaacttactg gtttttatcc	1620
aaaatctttt acgttaaata gactttttta aagatatagt tagcatcact tttaaacagc	1680
ttaaaggaat atcaaaattg ttattgtgta tctcatctat aaggaagtct gttactttga	1740
aattttcata aatttaatat ttaagataca ttgtatttga aaattgcatt aatagtgggg	1800
tgatactgtg ttaaaaggaa cgttgtgttg tgacattcaa gagaacctcc tcatttaatt	1860
agtactttga ttctgtgtaa gataatcttg gtagtgcttg acagtttcca aacctttttt	1920
tgagagata tttaagaatt taatattttg atattagatt gtttcccaga ttttaatttt	1980
ggggttggct caaactagtg aaaactatga ctcaatggcc aattgcttta tcaaatttga	2040
taactaaaac ttaaaatgaa tatggaaaat cagaaagcaa ctctatttta gagctatttt	2100
gtaagagttg tgctttcttt aacaccatct gtagtcttaa gtttgtctct agctagaact	2160
gaacaaagct ctataatttt taccaagcac ttattattaa tacttcttat aagtagtaag	2220
catctttact aacacaactg agaattaagt cataaaacat aactaataca gcacattact	2280
gcctgacaaa attaaagagt actgtgtgta tgtataacta ctacagggtta acacttcacc	2340
caaatgatag cgtttttctt cagtagatta ttgtcaaata ggaatttcta agcacattga	2400
gtcaaagcat tttttccagg ttaataaagt gttatttact atctttgtta gaggtgacat	2460
gtcaaacact acagtgaact ctgtgggggt tttttttttt tttttgcccg tgagtttttt	2520
accatgctgc tctgaccagt ttgagtggca attaccaata gatttgtttt ctttattcta	2580
tgagatggt tttaccactg aactgttttt ctgattatag tctgcttcat agaaaatagc	2640
ctgcataatc aaacaaggag ttactttgaa attaaagtat gcctggctat taaaaatgca	2700
gatttttaggt gggtaaacat caggtaggtc tgggtgggtc atgttctagg cctagaaaaa	2760
tacactatta gacaagttct aaagaaggca aggagataaa ggcacaggt ggtaacttct	2820
aattgaatat tatatgttga tcatacataa tatatactat gcctggaaat tatgactgaa	2880
aagcacctat tcggttagtg ctctatttca tgagaacata tctccaatac taaatgagat	2940
aagcctgttc taaaatctta tagccagtat tttaagaaac ttgattatac ttaccaaagg	3000
aacattgttt gttttctctt gttttaaata tggagaggtt taatccttta cataacaaag	3060
gaattaattt tagcaaaatg attcattcca accttcttat aagaaatatc taggagagtc	3120
aagtaagaaa aataacgaat ctaagtata aacattcaag aaattctcta aataagagat	3180
ttatttataa ttttaatatc tcagggttct ttttaggttt ccaggggaaa agagcaggat	3240
aacagtgtgg agactgctaa gttgagaatt taaaacaaat gagaacataa gattttttaa	3300

342-42PCT.txt

```

attgcattgt gaatgtaaaa tttttatcaa tcctttgctc ttttagacat attgagaaaa 3360
tgtaaataag aaaaaattaa gaaattttta taagatgttt cagatctttg agtatgaaaa 3420
acataacaaa aaagcctaatt ttcaaaaaaac tatttgagat caagggacaa tgggtgtgacc 3480
aatatgaagg gtcaagactg aaatgtattg tctttactat caagaactct actttcagtt 3540
gtttctcaga cagttaattt cagcttcata gagatttctg agcaaattaa gaaacactgt 3600
tttctgggt ttgttttggg tatatgtcat tatagttatg ttatttcttg ttgaaattta 3660
taattgtagg ttttttgtat tgttttggta tttaatggtg tataatgtgt tattacatta 3720
tatgtagtta taccaaaata ttgcctgaag agaaatcatg acaagggtccc ctgtttattc 3780
ctgtgttaca gacgcattga attgctcctg tagatttgaa tttttgtttc atttttttct 3840
gtccaccct tcaactctctc tgtttcagaa ctttttgggt agaagtgcta tccagaagtg 3900
aacttgtcaa aaggcaagta gcatgaaaga agacagaaga agcaaaaggc taatacagtg 3960
gataatttct gagcacttga agtttcttca aatgtgcaag actgtgtgtc ttctattag 4020
atgtataaat tggatatttc atgcctaatt aaatgttgcg ttggattgca gtgcctatca 4080
tacagtgatt ggagtaaatt gaggcctaatt cctgaacaca tatagagcat attgttagat 4140
atttttctg tgacatttga agttattatt ctcccatttc ctttttcttt ttttgtttat 4200
aatcatatgt ccctaagatt gttttccttt tttggaccaa aaaaaagaaa aaaaaaatct 4260
tagcttttca tcctcccagt gtattctgca ttgtccttac cctagatcag ccccttctgt 4320
gtaacagttt ttctcacaat gtagcaactt ttatccaccc ttcaggacct tcaactgggac 4380
tagttcattc attttcaaat agctatttca acctttaaca tctactgtct tagtctttta 4440
cacagaagcc agagtgactg gtcttgga gactctgttg tgtatcacca ctctaacctt 4500
actgatttgt ttcagcaaat ttgctttagt taaattgctt tactcagatt cccccaact 4560
ttatatgtgt attgtcatct ttgtgcatat tatttctcat gcatgaaata ctcaattttt 4620
attcttttat ctaacgttta ctcttacatt tctttaaaagc tctggccaag tattttattt 4680
cgtccctaaa cattctaact atccaccaa ctggttaagt ggcttttctt tttctcccc 4740
ctgtcattca tttagctgtt atatttcatt ttaatgtttt ggggtggtgcc tcttatacta 4800
tgttgtattc ctagacaagg aaatgtatat caaaatatgt tagatgattg attgttttat 4860
ctccttgatg atagcacctc ttatactgct ttacagaatc aggaaaaagt aaactgcatt 4920
ttacatagtg gttttaaata ttgattgatt gatattctaa acctgggtttc ctatataaag 4980
ttgtaagttc aagataaaaa aaaaaaaaaa aaaaca 5016

```

```

<210> 592
<211> 372
<212> PRT
<213> Homo sapiens

```

<400> 592

Met Ala Lys Ser Lys Thr Lys His Arg Leu Cys Ser Gln Glu Ser Ser
 1 5 10 15

Val Ser Ala Leu Leu Ala Ser Cys Thr Leu Ser Gly Ser Asn Ser Ser
 20 25 30

Asn Ser Asp Gly Ser Phe His Tyr Lys Asp Lys Leu Tyr Arg Ser Ala
 35 40 45

Ser Gln Ala Leu Gln Ala Tyr Ile Asp Asp Phe Asp Leu Gly Gln Ile
 50 55 60

Tyr Pro Gly Ala Ser Thr Gly Lys Ile Asn Ile Asp Glu Asp Phe Thr
 65 70 75 80

Asn Met Ser Gln Phe Cys Asn Tyr Ile Tyr Lys Pro Asn Asn Ala Phe
 85 90 95

Glu Asn Leu Asp His Glu Lys His Ser Asn Phe Ile Ser Cys Arg Arg
 100 105 110

His Ile Val Asn Asp Ile Asp Ser Met Ser Leu Thr Thr Asp Asp Leu
 115 120 125

Leu Arg Leu Pro Ala Asp Gly Ser Phe Ser Tyr Thr Tyr Val Gly Pro
 130 135 140

Ser His Arg Thr Ser Lys Lys Asn Lys Lys Cys Arg Gly Arg Leu Gly
 145 150 155 160

Ser Leu Asp Ile Glu Lys Asn Pro His Phe Gln Gly Pro Tyr Thr Ser
 165 170 175

Met Gly Lys Asp Asn Phe Val Thr Pro Val Ile Arg Ser Asn Ile Asn
 180 185 190

Gly Lys Gln Cys Gly Asp Lys Ile Glu Leu Leu Ile Leu Lys Ala Lys
 195 200 205

Arg Asn Leu Glu Gln Cys Thr Glu Glu Leu Pro Lys Ser Met Lys Lys
 210 215 220

Asp Asp Ser Pro Cys Ser Leu Asp Lys Leu Glu Ala Asp Arg Ser Trp
 225 230 235 240

Glu Asn Ile Pro Val Thr Phe Lys Ser Pro Val Pro Val Asn Ser Asp

245

250

255

Asp Ser Pro Gln Gln Thr Ser Arg Ala Lys Ser Ala Lys Gly Val Leu
260 265 270

Glu Asp Phe Leu Asn Asn Asp Asn Gln Ser Cys Thr Leu Ser Gly Gly
275 280 285

Lys His His Gly Pro Val Glu Ala Leu Lys Gln Met Leu Phe Asn Leu
290 295 300

Gln Ala Val Gln Glu Arg Phe Asn Gln Asn Lys Thr Thr Asp Pro Lys
305 310 315 320

Glu Glu Ile Lys Gln Val Ser Glu Asp Asp Phe Ser Lys Leu Gln Leu
325 330 335

Lys Glu Ser Met Ile Pro Ile Thr Arg Ser Leu Gln Lys Ala Leu His
340 345 350

His Leu Ser Arg Leu Arg Asp Leu Val Asp Asp Thr Asn Gly Glu Arg
355 360 365

Ser Pro Lys Met
370

<210> 593
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 593
aatggaagc aatgtggtga c

21

<210> 594
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 594
tccagagaga gtacagctct g

21

<210> 595
<211> 2061
<212> DNA
<213> Homo sapiens

342-42PCT.txt

<400> 595

```

atgaggcgga caggccccga ggaggaggcc tgcggcggtgt ggctggacgc ggcggcgctg      60
aagaggcgga aagtgcagac acatttaatc aaaccaggca ccaaatgct aacactcctt      120
cctggagaaa gaaaggctaa tattttatctt actcaaagaa gagctccatc tacaggcatt      180
caccagagaa gcattgcttc cttcttcacc ttgcagccag gaaagacaaa tggcagtgac      240
cagaagagtg tttcatctca tacagaaagt cagatcaaca aagagtccaa gaaaaatgcg      300
accagctag accatttgat ccagggctta gcacacgatt gcattggcatc ccttttagcc      360
acttcaacca ctgcggacat ccaggaagct ggactctctc ctcagtcctt ccagacttct      420
ggccaccaca gaatgaaaac cccattttca actgagctat ctttgctcca gcctgatact      480
ccagactgtg ctggagatag tcatacccca ctggcttttt ccttcaccga ggacttgga      540
agttcttggt tgctagaccg aaaggaagaa aaaggggatt ctgccaggaa atgggaatgg      600
cttcatgagt ctaagaagaa ctatcagagt atggagaaac acaccaaact acctggggac      660
aaatgctgtc agcccttagg caagactaaa ttggaaagaa aggtgtctgc caaagaaaac      720
aggcaggccc ctgtctctct tcaaacatac agggaatcct ggaatggaga aaacatagaa      780
tcggtgaaac aaagccgtag tccagtttct gtgttttctt gggacaatga aaagaatgac      840
aaggactcct ggagtcaact tttcactgaa gattctcaag gccagcgggt cattgcccac      900
aacactagag ctctttttca agatgtaacc aataactgga attgggactt agggccgttt      960
cctaacagtc cttgggctca gtgccaggag gatgggcca ctcaaatct gaagcctgat      1020
ttgctcttta cccaggactc tgaaggtaat caagttatca gacaccaatt ctaaagtgtt      1080
gaagctttgt ttctaaaagt accttgaaat gatagagatg taggaaaata tagttgtggg      1140
tgagagagag agtgagtttg tttaggtggg aaggtggcat gggatgaagt tgtcattact      1200
gagcatcttc tctgtgtaaa taaagggcag taccattggt aagacagtgg gattggcatc      1260
atggctttcc ctcaggaagg tgggtggctg taaattcctt gaatgagtct atgatgaaca      1320
ctgaggcagc acagtgggta tttatctcta tgaaagtgcc ttttactcag cctgcacaga      1380
gccatctctt tgcccttcca gatgtctgac tgggaccttg cttatggatg tgtttttttt      1440
tttttttttt tgagatggag tctcgctctg tcgccaggct ggagtgcagt ggtgcgacct      1500
cagctcactg caccctctgt gtcccggtt caagcgattc tcctgcctca gcctcccgaa      1560
tagcagggac tacaggcatg cgccaccacg ccagctaat tttttttgga ttttttagtag      1620
agacgaggtt tcacatattt agccaggatg gtctccatct cctgacctcc tgatccgccc      1680
acctcagcct cccaaagtgc tgagattaca ggcataagcc accgcgcca gccagatgtg      1740
tgagctttta atctctggct gatcttaacc cacatcagcc taagcttggg atgattactc      1800
ttgacctttt tttttcagtg attagcaaat ctccccacaa cccaggtgtg gagagaagag      1860
aggtagaatg gtgctagttt cctattttat tttgtggta actgtacagc actttaaagt      1920

```

342-42PCT.txt

tatatactct atgttttaaat atctccctta aaaagcctga gctgtacaac aatctggatg 1980
 tgactctgtt acccttttcc cacaagatag gagggaaatcc cctttgtaaa actatgaatc 2040
 caaataaatg tttacaaagt g 2061

<210> 596
 <211> 357
 <212> PRT
 <213> Homo sapiens

<400> 596

Met Arg Arg Thr Gly Pro Glu Glu Glu Ala Cys Gly Val Trp Leu Asp
 1 5 10 15

Ala Ala Ala Leu Lys Arg Arg Lys Val Gln Thr His Leu Ile Lys Pro
 20 25 30

Gly Thr Lys Met Leu Thr Leu Leu Pro Gly Glu Arg Lys Ala Asn Ile
 35 40 45

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

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

Gln Lys Ser Val Ser Ser His Thr Glu Ser Gln Ile Asn Lys Glu Ser
 85 90 95

Lys Lys Asn Ala Thr Gln Leu Asp His Leu Ile Pro Gly Leu Ala His
 100 105 110

Asp Cys Met Ala Ser Pro Leu Ala Thr Ser Thr Thr Ala Asp Ile Gln
 115 120 125

Glu Ala Gly Leu Ser Pro Gln Ser Leu Gln Thr Ser Gly His His Arg
 130 135 140

Met Lys Thr Pro Phe Ser Thr Glu Leu Ser Leu Leu Gln Pro Asp Thr
 145 150 155 160

Pro Asp Cys Ala Gly Asp Ser His Thr Pro Leu Ala Phe Ser Phe Thr
 165 170 175

Glu Asp Leu Glu Ser Ser Cys Leu Leu Asp Arg Lys Glu Glu Lys Gly
 180 185 190

Asp Ser Ala Arg Lys Trp Glu Trp Leu His Glu Ser Lys Lys Asn Tyr

195

200

205

Gln Ser Met Glu Lys His Thr Lys Leu Pro Gly Asp Lys Cys Cys Gln
 210 215 220

Pro Leu Gly Lys Thr Lys Leu Glu Arg Lys Val Ser Ala Lys Glu Asn
 225 230 235 240

Arg Gln Ala Pro Val Leu Leu Gln Thr Tyr Arg Glu Ser Trp Asn Gly
 245 250 255

Glu Asn Ile Glu Ser Val Lys Gln Ser Arg Ser Pro Val Ser Val Phe
 260 265 270

Ser Trp Asp Asn Glu Lys Asn Asp Lys Asp Ser Trp Ser Gln Leu Phe
 275 280 285

Thr Glu Asp Ser Gln Gly Gln Arg Val Ile Ala His Asn Thr Arg Ala
 290 295 300

Pro Phe Gln Asp Val Thr Asn Asn Trp Asn Trp Asp Leu Gly Pro Phe
 305 310 315 320

Pro Asn Ser Pro Trp Ala Gln Cys Gln Glu Asp Gly Pro Thr Gln Asn
 325 330 335

Leu Lys Pro Asp Leu Leu Phe Thr Gln Asp Ser Glu Gly Asn Gln Val
 340 345 350

Ile Arg His Gln Phe
 355

<210> 597
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 597
 caccttgacag ccaggaaaga c

21

<210> 598
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 598

cagcacagtc tggagtatca g

21

<210> 599
 <211> 1907
 <212> DNA
 <213> Homo sapiens

<400> 599
 aatgcacacg agcagacaga gaagcaacat ctttaaggta ctgagggcag gagaagttaa 60
 tgtagaatac tatgccagaa aaaataaatt cccaaaagtg gaagtgaaat aaggacattt 120
 agagatgtac aaaagctgac cgaattcact accagtcaac ccacactaca agaaacatca 180
 aatgagtcct ccaagcagaa ggaatccaat accagatgaa aatccagatc tccacgagga 240
 aatgaagaac accagaaatg ggtaactata ctagatcggc cctttcttca aataagagca 300
 gttggaataa caaagctggt cagttgtacc cttggaatcc actgaaatcc tgggtaggga 360
 agctccagta ccaccaactg gaaagactgg gaatgcctaa tagctggtac tggccattgt 420
 cgtaggcttt gtccactctg acaaactgaa gatggggact cgactcacct tcgccagcca 480
 caggaggacc tccagacgag gacaggactc gctgcctttc tttcccgtca gaaagggatc 540
 ccttgccggac aggacctaag caccacgcac ctgccccccg ggatgccgaa cgaagtggtc 600
 cctaaagctc ctctgcaggc ccaaccgaaa caggcctgaa gctccaggat gggcgagagg 660
 atcctctttg agcgaaacca gccttctgcc tggctggccc tgggtcaacac cctgggaaga 720
 ggccgatttg gcggacagaa cggaagaaaa gacctaaagg tagaatctca tgatgtcgag 780
 atgttaaaac actcaaattt taaggttcga ctgtgagggg gagatagggg gtctcgagct 840
 ggatcgaccc ctgagccttc atctgcagag tctgtgcac cagctcagag gacaggacta 900
 tgtgcaccaa tggttctcat caggcggaac cttcacctc acatgcctcc cccatccctg 960
 ctggtacaca agaccacgac taggggaagc ccggagggag aatgttaacc cctggcatct 1020
 atctagtcag cagaggtgag ggatgctgct aaacacctta caatccaccg gaggacaccc 1080
 gccccaccg accccgaagt ggccattccc tggaggtggg gaaactcgcc tgtagatcaa 1140
 tgcccacgca cttggcggac aggaaatcac gaattggcca ctaactggat cttggatctg 1200
 agaaaaaaat tccagcgtca gagggaaactc tcggagattt gccagagca taaggaacgt 1260
 actccttccc tcagtgatgg atcctcacat ctgggggaaa tcatagacaa tttcttttgt 1320
 agggcgaaact ctgctataca gtttatgatg tcagagtgaat tactttcttt gagttgcagt 1380
 cagaaactgt agatttttaa aaatttaaaa ttcattattc tctgtcagta ttccaaagtg 1440
 tatacagaaa gctattgcac tgttcaggag atggcgctta acattttgga aattcaagg 1500
 gatgaatgtc cagataagac tatctctcct ggtacaaagt ttgacaatgc tgaacatttt 1560
 taaaggttct ttttgatata caaagtgcac caatgagtgc tttttaattc ttacaataat 1620
 tctgggtgag gtaggtattt ttccaattcc catthttatgc ttcggtagcc ctttgtatth 1680

342-42PCT.txt

atacttcaaa acacttggt ctcttgtaat tatttaagaa attagttgtg attatttggt	1740
taatgtgcag gagttacaaa aggcaagctt tagaacaaga cagacctggt tatgattcct	1800
ggctctgaaa gctgtacacc ctgtgaccct agacaggtgt tttaatgcct cgctgcctct	1860
gtttcttgct ctgtaaaatg tgaacaataa cagtattggc ctcatgc	1907

<210> 600
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 600	
ttgcggacag gacctagca c	21

<210> 601
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 601	
tagtcctgtc ctctgagctg g	21

<210> 602
 <211> 2553
 <212> DNA
 <213> Homo sapiens

<400> 602	
tgcgtgtcgg ggtccgctcg tgcgcgcctc tccggggctct gtgcgcgtgg ccctccgctc	60
gcgccggagg gcgtgggcgt ggcctcggcg tgggtgtggc cgctcgggga ggggcctccc	120
gggggcgggg ccggcctggt ccgcgcggtg acgcgccctg cagccccgag cgagcgagcg	180
agcgagcgag ttgccgagcg cgccccgtcc ctgcgcgcg atgctcccct ggacggcgct	240
cggcctggcc ctgagcttgc ggctggcgct ggcgcggagc ggcgcggagc gcggtccacc	300
agcatcagcc ccccgagggg acctgatgtt cctgctggac agctcagcca gcgtctctca	360
ctacgagttc tcccgggttc gggagtttgt ggggcagctg gtggctccac tgccccctggg	420
caccggggcc ctgcgtgccca gtctggtgca cgtgggcagt cgccataca ccgagttccc	480
cttcggccag cacagctcgg gtgaggtgc ccaggatgcg gtgcgtgctt ctgcccagcg	540
catgggtgac acccactg gcctggcgct ggtctatgcc aaggacagc tgtttgctga	600
agcatcaggt gcccgccag ggggtgcccc agtgctggtg tgggtgacag atggcggtc	660
cagcgaccct gtggggcccc ccatgcagga gctcaaggac ctgggcgtca ccgtgttcat	720

342-42PCT.txt

tgtcagcacc	ggccgaggca	acttcctgga	gctgtcagcc	gctgcctcag	cccctgccga	780
gaagcacctg	cactttgtgg	acgtggatga	cctgcacatc	attgtccaag	agctgagggg	840
ctccattctc	gacgcgatgc	ggccgcagca	gctccatgcc	acggagatca	cgtccagcgg	900
cttccgcctg	gcctggccac	ccctgctgac	cgcagactcg	ggctactatg	tgctggagct	960
ggtgcccagc	gcccagccgg	gggctgcaag	acgccagcag	ctgccaggga	acgccacgga	1020
ctggatctgg	gccggcctcg	acccggacac	ggactacgac	gtggcgctag	tgcttgagtc	1080
caacgtgctc	ctcctgaggg	cccagatcct	gcgggtgctc	acgcggcccg	gtgaggcagg	1140
gccgggggct	tcggggcccg	agtcgggggc	tgggcccggc	cccacgcagc	tcgcccgcct	1200
ccccgcccc	gaggaggccg	ggccagagcg	catcgtcac	tcccacgccc	ggccgcgcag	1260
cctccgcgtg	agttggggcc	cagcgctggg	ctcagccgcg	gcgctcggct	accacgtgca	1320
gttcggggcg	ctgcggggcg	gggaggcgca	gcgggtggag	gtgcccgcgg	gccgcaactg	1380
caccacgtcg	cagggcctgg	cgccgggcac	cgcctacctg	gtgaccgtga	ccgcccgcct	1440
ccgctcgggc	cgcgagagcg	cgtgtctcgc	caaggcctgc	acgcccgaag	gcccgcgccc	1500
gcgcccacgc	cccgtgcccc	gcgccccgac	cccggggacc	gccagccgtg	agccgtaagc	1560
cggcgtcccc	gcccagccga	gagggccggc	gcctacctga	gggcccctgt	gtcccgaacc	1620
cggagcggag	gcgcccgaac	cggcagacgg	gtgcaggccc	ggcctttccc	cacgcggact	1680
ccgcgcgacc	ccggccctct	ccctgcggcc	gcagggtctc	cccgcctggc	gcctgccctc	1740
cagggtctgg	gcctcgccct	gcgggacccc	gcagcagccc	cggcccccac	cccgcgccga	1800
gccgggcgtc	gtgtgggtcc	gtgggtgata	attgagagcg	tcagaccagc	gactgttcag	1860
ggaggagccc	cggtcagact	cccacgtgtg	aagaccgggc	cccaagtggc	aagggtctgg	1920
ctggggcggg	cagcttgggt	cctggacgtt	gataggaagc	ggaaggggaa	tcgcgggaag	1980
ctggcccagg	tcaggtccgc	aaaggcttct	gaagaagagg	aagggcgagt	aggggcacct	2040
ggacgctgat	ggtggccagg	atgctcagct	ggccaggagg	gcagcacctg	ctggggacgg	2100
tggccctgcc	ttcatgcccc	ggacaccagc	tgggtccagc	tagcagccac	tgggaatcag	2160
aggaatgggg	cagagctggg	cattcaggac	cttgaggaca	cgtgacccca	cccgcgccac	2220
gccactatca	ggccccggga	ccgcactgac	aggaaacctt	ccgtcgtgag	ggagcacttc	2280
ccaggggccc	cagggacgac	actctccagg	gaggccccag	caaccacacc	atcttcttgc	2340
tgtgagaggt	ctcaccgccg	gtacacctct	gtcactactc	actgccctgg	ggtccgtggg	2400
caagttgccc	aggggtgggg	tgccctagcca	ggtgcagtcc	ccgccccgcc	tagtcctcgg	2460
cgtcacgcaa	tgctcacctc	gcctcttccc	cactaacatc	ccagacttta	aaattcagta	2520
aatcagatgt	acaccgaaaa	aaaaaaaaaa	aaa			2553

<211> 445
 <212> PRT
 <213> Homo sapiens

<400> 603

Met Leu Pro Trp Thr Ala Leu Gly Leu Ala Leu Ser Leu Arg Leu Ala
 1 5 10 15

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

Gly Asp Leu Met Phe Leu Leu Asp Ser Ser Ala Ser Val Ser His Tyr
 35 40 45

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

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

Arg Pro Tyr Thr Glu Phe Pro Phe Gly Gln His Ser Ser Gly Glu Ala
 85 90 95

Ala Gln Asp Ala Val Arg Ala Ser Ala Gln Arg Met Gly Asp Thr His
 100 105 110

Thr Gly Leu Ala Leu Val Tyr Ala Lys Glu Gln Leu Phe Ala Glu Ala
 115 120 125

Ser Gly Ala Arg Pro Gly Val Pro Lys Val Leu Val Trp Val Thr Asp
 130 135 140

Gly Gly Ser Ser Asp Pro Val Gly Pro Pro Met Gln Glu Leu Lys Asp
 145 150 155 160

Leu Gly Val Thr Val Phe Ile Val Ser Thr Gly Arg Gly Asn Phe Leu
 165 170 175

Glu Leu Ser Ala Ala Ala Ser Ala Pro Ala Glu Lys His Leu His Phe
 180 185 190

Val Asp Val Asp Asp Leu His Ile Ile Val Gln Glu Leu Arg Gly Ser
 195 200 205

Ile Leu Asp Ala Met Arg Pro Gln Gln Leu His Ala Thr Glu Ile Thr
 210 215 220

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

Gly Tyr Tyr Val Leu Glu Leu Val Pro Ser Ala Gln Pro Gly Ala Ala
 245 250 255

Arg Arg Gln Gln Leu Pro Gly Asn Ala Thr Asp Trp Ile Trp Ala Gly
 260 265 270

Leu Asp Pro Asp Thr Asp Tyr Asp Val Ala Leu Val Pro Glu Ser Asn
 275 280 285

Val Arg Leu Leu Arg Pro Gln Ile Leu Arg Val Arg Thr Arg Pro Gly
 290 295 300

Glu Ala Gly Pro Gly Ala Ser Gly Pro Glu Ser Gly Ala Gly Pro Ala
 305 310 315 320

Pro Thr Gln Leu Ala Ala Leu Pro Ala Pro Glu Glu Ala Gly Pro Glu
 325 330 335

Arg Ile Val Ile Ser His Ala Arg Pro Arg Ser Leu Arg Val Ser Trp
 340 345 350

Ala Pro Ala Leu Gly Ser Ala Ala Ala Leu Gly Tyr His Val Gln Phe
 355 360 365

Gly Pro Leu Arg Gly Gly Glu Ala Gln Arg Val Glu Val Pro Ala Gly
 370 375 380

Arg Asn Cys Thr Thr Leu Gln Gly Leu Ala Pro Gly Thr Ala Tyr Leu
 385 390 395 400

Val Thr Val Thr Ala Ala Phe Arg Ser Gly Arg Glu Ser Ala Leu Ser
 405 410 415

Ala Lys Ala Cys Thr Pro Asp Gly Pro Arg Pro Arg Pro Arg Pro Val
 420 425 430

Pro Arg Ala Pro Thr Pro Gly Thr Ala Ser Arg Glu Pro
 435 440 445

<210> 604

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 604

aaccaacctg aggatttcac g

<210> 605
 <211> 21
 <212> DNA
 <213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 605
 agacagctgt tcgtgagaag c 21

<210> 606
 <211> 1999
 <212> DNA
 <213> Homo sapiens

<400> 606
 cactctgtaa gttcaccgcc ggtcgggtcc ggccgccgcg ctgtccagct cctgagacct 60
 tgctgtccgc cggctctgccg tctgcgcgcc tcacgtcctt cagccctgga ccggggacaa 120
 gtaaccctcg gtgacaagac caaagtgcac tgctgcccac acagttccta cctttctggc 180
 ttcaattctt cagaagagtt tgccgtcctt tggggagaaac gtgatttttg ttatctcagc 240
 ccactgactt cattgatctc taatcttttt taattccttg ggccaacttt gttcgtgccc 300
 ccacactgta gccagaagcc cgttggcgag ctctggcacc tgcaaaccac cccgtggaac 360
 gagtgtttcc tctggctgag ggttggagag gaggtgtggt ctacgcaggc ggcccgtagc 420
 ctcacagcca ggccctggtg tgaggtcacc atgtccacca aggtgcccac ctatctgaag 480
 cgtggcagtc gcaagggcaa gaaggagaag ctccgggacc tgctgtcctc ggacatgac 540
 agcccaccgc tgggggactt ccgccacacc attcatattg gcagtggcgg cggcagtgac 600
 atgtttggcg acatctcctt cctgcagggc aagttccacc tcctgccggg gaccatggtg 660
 gaggggcctg aagaagatgg caccttcgac ctccccttcc agttcaccgc caccgccacc 720
 gtgtgtgggc gggagctccc ggacggccca tcccctctgc tcaagaacgc catctccctc 780
 ccggttatcg gtggacccca ggctctcacc ctgcccacag ccaggtctcc acccaagccc 840
 cctcgccctgc acctggagac ccctcagcct tccccacagg agggagggag tgtggacatc 900
 tggaggattc cagagactgg ctcccccac agtggactga ccccgagtc aggggcccag 960
 gagcccttcc tgtccaatgc cagctccctg ctgtccctgc acgtggacct ggggccttcc 1020
 atcctggatg atgtcctgca gatcatggat caggacctgg acagcatgca gatccccaca 1080
 taggacacga ggctgcctag gctgggggtcc cagggtggggc ccagccagga ggtgggggtg 1140
 ggacccggcc ctggcggcgg agtcagggtc ccaagatccc acctgtatgg tcgctggcca 1200
 gtgattctcc ttctgagccg tgtttccctt ctcccctcct ctccacgtgg gcagggcagg 1260
 ccccatcgct ttctctgat aaccacatgg acacatcctg aagtcagccc aggcgccttg 1320

342-42PCT.txt

```

agcatcttgg ggcacctgga ccccatcaca atactccttc ttccttcagg tccctgggtg 1380
aaggctttgc tgaaccgac ccccttttc acgtcccttc tgctctgcc ccgttggtg 1440
ccctgactgg gggcagggga agagacaggg cacagctggc cacagggctc agccactgag 1500
caggctgttc cgggcctttg gctttgcac ctggacgggg agtgtcctgt cagggaccag 1560
atgtgtcctg cctcatccct agctccaatc cttccccac gtgaccgggg attctggttg 1620
caataaaaca tgctgctgct ggtggcggag ctccctgtcc ctttgcccca ggtttcctcc 1680
cggaggcaga cagtctccca gagctgaggg cttgcctctg gagaccccag cccagaggg 1740
ctttgtggag gacaggcctt gccctcaaga acgtcgtacc tgacgctgag cctgtcatga 1800
gaatgcaaca ggagcaaacc aagtgttgct gtgacattga ttcagatgtt tggcaagagg 1860
tggctgagca ctgggggtgg cttggcactg tgccaagcct ggggccaatc cctgcccagt 1920
cagctggggg ctggtggggg acaccaaga ataaaagaat aaccacaaag tgtgcaaggg 1980
aaaaaaaaa aaaaaaaaaa 1999

```

<210> 607
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 607

Met Ser Thr Lys Val Pro Ile Tyr Leu Lys Arg Gly Ser Arg Lys Gly
 1 5 10 15

Lys Lys Glu Lys Leu Arg Asp Leu Leu Ser Ser Asp Met Ile Ser Pro
 20 25 30

Pro Leu Gly Asp Phe Arg His Thr Ile His Ile Gly Ser Gly Gly Gly
 35 40 45

Ser Asp Met Phe Gly Asp Ile Ser Phe Leu Gln Gly Lys Phe His Leu
 50 55 60

Leu Pro Gly Thr Met Val Glu Gly Pro Glu Glu Asp Gly Thr Phe Asp
 65 70 75 80

Leu Pro Phe Gln Phe Thr Arg Thr Ala Thr Val Cys Gly Arg Glu Leu
 85 90 95

Pro Asp Gly Pro Ser Pro Leu Leu Lys Asn Ala Ile Ser Leu Pro Val
 100 105 110

Ile Gly Gly Pro Gln Ala Leu Thr Leu Pro Thr Ala Gln Ala Pro Pro
 115 120 125

342-42PCT.txt

Lys Pro Pro Arg Leu His Leu Glu Thr Pro Gln Pro Ser Pro Gln Glu
130 135 140

Gly Gly Ser Val Asp Ile Trp Arg Ile Pro Glu Thr Gly Ser Pro Asn
145 150 155 160

Ser Gly Leu Thr Pro Glu Ser Gly Ala Glu Glu Pro Phe Leu Ser Asn
165 170 175

Ala Ser Ser Leu Leu Ser Leu His Val Asp Leu Gly Pro Ser Ile Leu
180 185 190

Asp Asp Val Leu Gln Ile Met Asp Gln Asp Leu Asp Ser Met Gln Ile
195 200 205

Pro Thr
210

<210> 608
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 608
aacgtcgtac ctgacgctga g 21

<210> 609
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 609
ccaagtgttg ctgtgacatt g 21

<210> 610
<211> 986
<212> DNA
<213> Homo sapiens

<400> 610
attcaagatg atgtagaga gatgacagag tctaggtag ggagggcctg agtccttgta 60
gactctgagt acggtgctga gcaggaaga gacaggctct ggcttagggg ttagaaggaa 120
cacaggctac tgcgatgagg attgtctgaa ggggaacaaa ggccaagatg ttgtttgaag 180
ccgtgagact gaggatgc atggaggaag tgaatgtaa tagaaaaggg aagaagtctg 240
aagacggagc cctgagacac tccattgtaa actggaagat gaggaagagc cagcaaagga 300

342-42PCT.txt

gactgagaag gggcagccag tgaagatgga gccagggcta gagtaagagc cccttctggg	360
atgctgtgac ccccaagttt gaagactgct gataacccca atctacgaag actagctatg	420
gaacttccta cactgagaca actccagtgg aactctgata attatcctaa aataaggagg	480
cttcttcagt agccctcgaa atatgttcaa atacatgatt acatttatgt ccttaatat	540
gctattagtt tctgatgtta atgtaaaagt tggggaaaaa gtggaaaagt taaagcagt	600
cagggttaatt caatgccaga gtaacttctc agaggggtgta tattcagtgt gaacaatttt	660
caacagagaa atgtcaactt ctggccacaa cggcaaccag taaaatgact atttttactg	720
tcttatctat taatgaagag gagattgcat aatatagatg aaggagcata gtatttgag	780
gtggaacgcc tagcagggct tgagtctcaa ctctgctgct tttactctaa ttgaccgaga	840
caagtcattt aaactaatag agcttcaatt ttctcatatc taatgtaaca taacaattca	900
cagcctttta ctttgtagtt atcgtgaaga tctaatacgca gtgaaatata tttatatatc	960
tgtctgccga taaaaaaaaa aaaaaa	986

<210> 611
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 611	
gactctgagt acggtgctga g	21

<210> 612
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 612	
tcttactcta gccctggctc c	21

<210> 613
 <211> 899
 <212> DNA
 <213> Homo sapiens

<400> 613	
cccagagcgcc ggccggggcca tgacccccgc tgctctgtct tgcaggctcg tcgccgcggc	60
cccccgagcc cgaccgccgc cgccaccacc accagcgccc gggcgggcct cgcgcgcctc	120
gggcgcggct ccgcagttag cccaccaaga aggaagcggc ctgcagaggt gccgacatgg	180
ggcttaagat gtctgcctg aaaggctttc aaatgtgtgt cagcagcagc agcagcagcc	240
acgacgaggc ccccgctctg aacgacaagc acctggacgt gcccgacatc atcatcacgc	300

342-42PCT.txt

```

ccccaccccc cacgggcatg atgctgccga gggacttggg gagcacagtc tggctggatg      360
agacaggggtc gtgcccagat gatggagaaa tcgaccaga agcctgagga ggtgtcctgg      420
gtttggctgg ctggctcctg ctccagcggc cgggttcag gtgtccgggg gcgtggctgc      480
ctggagcagg tgtgctgaat accctggatg ggaactgagc gaaccggggc ctccgctcag      540
agagacgtgg caggaccagc gaggaatcca gcctgtccac ttccagaaca gtgtttccca      600
ggccccgctg agtggaccgg acctctgaca cctccaggtt cttgctgact ccggcctggt      660
gaaagggagc gccatggtcc tggctgttgg ggtcccaggg agaggctctc ttctggacaa      720
acacaccctc ccagccccc aaggctgtgca aacacatgcc cctgccataa gcaccaacaa      780
gaacttcttg caggtggagt ggctgttttt tataagttgt tttacagata cggaacagt      840
ccaaaatggg atttataatt tcttttttgc attataaata aagatcctct gtaacaaaa      899

```

<210> 614
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 614

```

Met Gly Leu Lys Met Ser Cys Leu Lys Gly Phe Gln Met Cys Val Ser
1           5           10           15

```

```

Ser Ser Ser Ser Ser His Asp Glu Ala Pro Val Leu Asn Asp Lys His
          20           25           30

```

```

Leu Asp Val Pro Asp Ile Ile Ile Thr Pro Pro Thr Pro Thr Gly Met
          35           40           45

```

```

Met Leu Pro Arg Asp Leu Gly Ser Thr Val Trp Leu Asp Glu Thr Gly
          50           55           60

```

```

Ser Cys Pro Asp Asp Gly Glu Ile Asp Pro Glu Ala
65           70           75

```

<210> 615
 <211> 21
 <212> DNA
 <213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 615

tgtcctgcct gaaaggcttt c

21

<210> 616
 <211> 21
 <212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 616

catccagggt attcagcaca c 21

<210> 617

<211> 432

<212> DNA

<213> Homo sapiens

<400> 617

ttatgtgcct gaagtcgcac agtgaataag ctaaaacacc tgcttttaac aatggtacca 60

tacaaccact actccattaa ctccaccac ctctgcacc cctccccaca cacacaaaat 120

gaaccacggt ctttgtatgg gcccaatgag ctgtcaagct gccctgtggt catttcattt 180

ggaattgcc cctctggttc ctctgtatac tactgcttca tctctaaaga cagctcatcc 240

tcctccttca cccctgaatt tccagagcac ttcattctgt ccttcatcac aagtccagtt 300

ttctgccact agtctgaatt tcatgagaag atgccgattt gggtcctgtg ggtcctcagc 360

actattcagt acagtgcttg actcacagca ggcactcaga aaatactgga ggaaataaaa 420

caccaaagat at 432

<210> 618

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 618

ctgctccttc atcacaagtc c 21

<210> 619

<211> 24

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 619

gagatctcga gatctcgatc gtac 24

<210> 620

<211> 2575

<212> DNA

<213> Homo sapiens

<400> 620

gagaacgggg tagcccggcg cttacacatg tcacatgtgc tttttaagac ggccgggagc 60

342-42PCT.txt

gcctgcgagc	tggatctggt	ggaggatgct	gcggcagggtg	cttcgcagag	ggctccagtc	120
gttctgccac	aggtctgggtt	tgtgcgtgag	ccggcaccgc	gtctttttcc	tcaccgtgcc	180
cgcagtcctg	acaatcacct	tcggcctcag	cgcgctcaac	cgcttccagc	ccgagggcga	240
cctggagcgc	ctggtcgctc	ccagccacag	cctggccaag	atcgagcgca	gcctggccag	300
cagccttttc	cccctggacc	agtccaaaag	ccagctctat	tcggacttac	acaccctgg	360
gaggtatggc	agggatgatcc	tcctctcccc	aaccggggac	aatattttgc	tccaggctga	420
ggggatcctg	cagaccaccc	gagccgtgct	ggaaatgaag	gatgggagga	acagttttat	480
tggacaccaa	ctgggcgggg	tagtggaagt	gccaaacagc	aaagatcagc	gggtcaagtc	540
agccagagcc	attcaaatca	cctactacct	ccagacctat	ggctctgcca	cccaagacct	600
cataggggag	aagtgggaga	atgagttctg	taagcttata	aggaagctcc	aggaggagca	660
tcaagaactc	cagctctact	cttttagcatc	cttttagcctc	tggagggact	ttcataagac	720
cagcatcctg	gccagaagca	aggtcctggt	gagcctcgtg	ctgatcctga	ccacagccac	780
cctctccagc	tccatgaagg	actgcttgcg	cagtaagccc	ttcctggggc	tcctgggggt	840
gctcacagta	tgcattctcca	tcattcacagc	agcagggatc	ttcttcatca	ccgatggaaa	900
gtacaactcc	accctgctgg	gaatcccgtt	cttcgccatg	ggcatggaa	ctaaaggagt	960
gtttgagctt	ctgtccggat	ggcggagaac	caaagagaac	ttgcccttca	aagacaggat	1020
agcagatgcc	tattctgatg	tgatggtcac	ctataccatg	accagctccc	tgtacttcat	1080
cacttttggc	atgggtgcca	gccattcac	aaacatagag	gctgtgaagg	tcttctgtca	1140
aaacatgtgt	gtctctattc	tgttgaacta	cttctacatt	ttctccttct	ttggctcctg	1200
tctggtcttt	gctggccaac	tagagcaaaa	ccgctaccac	agcatctttt	gctgtaagat	1260
cccttctgca	gaatacctgg	atcgcaaacc	tgtgtggttc	cagacagtga	tgagtgatgg	1320
gcatcaacag	acgtcccatc	atgagacgaa	cccctaccag	caccacttca	ttcagcactt	1380
cctccgtgaa	cattataatg	aatggattac	caatatatat	gtgaagccat	ttgttgtcat	1440
cctctatctc	atttatgcct	ccttctcctt	catgggggtgc	ttacagatca	gtgacggagc	1500
caacatcatc	aatctactag	ccagtgattc	gccaaagtgt	tcctatgcca	tggttcagca	1560
gaaatatttc	agcaactata	gccctgtgat	aggattctac	gtctatgagc	ccctagagta	1620
ctggaacagc	agcgtccagg	atgacctaa	aagactctgt	agtggattca	ctgcagtgtc	1680
ctgggtggag	cagtactacc	agttcctgaa	agtcagcaac	gtcagtgcca	ataacaaaag	1740
tgacttcatc	agtgtcctgc	aaagctcatt	tttaaaaaag	ccagaattcc	agcattttcg	1800
aaatgatatc	atcttctcca	aggcagggga	tgaaagcaat	atcattgctt	ctcgcttgta	1860
tctggtggcc	aggactagca	gagacaagca	gaaagaaatc	acagaagtgt	tggaaaagct	1920
gaggccctta	tcctctctca	agagcatccg	attcatcggtg	ttcaaccctt	cctttgtctt	1980

342-42PCT.txt

catggaccat tacagcttgt ctgtcacagt gcctgttctg attgcaggct ttggtgttct 2040
cctggtgtta atcctgactt ttttcctagt gatccaccct ctgggaaact tctggctaata 2100
tcttagcgtc acctcaattg agctgggcgt tctgggctta atgacattat ggaacgtcga 2160
catggattgc atttctatct tgtgccttat ctacaccttg aatttcgcca ttgaccactg 2220
tgcaccactg cttttcacat ttgtatttagc aactgagcac acccgaacac aatgtataaa 2280
aagctccttg caagaccatg ggacagccat tttgcaaaat gttacttctt ttcttattgg 2340
gttagtcccc cttctatttg tgccttcgaa cctgaccttc acactgttca aatgcttgct 2400
gctcactggg gggtgcacac ttctgcactg ttttggtatt ttacctgtgt tcctaacggt 2460
tttccccct tccaaaaagc accacaagaa aaagaaacgt gccaaagcgaaggagagaga 2520
ggaaattgaa tgcataaaaa ttcaagagaa cccggatcac gtcaccacag tatga 2575

<210> 621
<211> 829
<212> PRT
<213> Homo sapiens

<400> 621

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

342-42PCT.txt

Ser Lys Asp Gln Arg Val Lys Ser Ala Arg Ala Ile Gln Ile Thr Tyr
 145 150 155 160

Tyr Leu Gln Thr Tyr Gly Ser Ala Thr Gln Asp Leu Ile Gly Glu Lys
 165 170 175

Trp Glu Asn Glu Phe Cys Lys Leu Ile Arg Lys Leu Gln Glu Glu His
 180 185 190

Gln Glu Leu Gln Leu Tyr Ser Leu Ala Ser Phe Ser Leu Trp Arg Asp
 195 200 205

Phe His Lys Thr Ser Ile Leu Ala Arg Ser Lys Val Leu Val Ser Leu
 210 215 220

Val Leu Ile Leu Thr Thr Ala Thr Leu Ser Ser Ser Met Lys Asp Cys
 225 230 235 240

Leu Arg Ser Lys Pro Phe Leu Gly Leu Leu Gly Val Leu Thr Val Cys
 245 250 255

Ile Ser Ile Ile Thr Ala Ala Gly Ile Phe Phe Ile Thr Asp Gly Lys
 260 265 270

Tyr Asn Ser Thr Leu Leu Gly Ile Pro Phe Phe Ala Met Gly His Gly
 275 280 285

Thr Lys Gly Val Phe Glu Leu Leu Ser Gly Trp Arg Arg Thr Lys Glu
 290 295 300

Asn Leu Pro Phe Lys Asp Arg Ile Ala Asp Ala Tyr Ser Asp Val Met
 305 310 315 320

Val Thr Tyr Thr Met Thr Ser Ser Leu Tyr Phe Ile Thr Phe Gly Met
 325 330 335

Gly Ala Ser Pro Phe Thr Asn Ile Glu Ala Val Lys Val Phe Cys Gln
 340 345 350

Asn Met Cys Val Ser Ile Leu Leu Asn Tyr Phe Tyr Ile Phe Ser Phe
 355 360 365

Phe Gly Ser Cys Leu Val Phe Ala Gly Gln Leu Glu Gln Asn Arg Tyr
 370 375 380

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

342-42PCT.txt

Lys Pro Val Trp Phe Gln Thr Val Met Ser Asp Gly His Gln Gln Thr
 405 410 415

 Ser His His Glu Thr Asn Pro Tyr Gln His His Phe Ile Gln His Phe
 420 425 430

 Leu Arg Glu His Tyr Asn Glu Trp Ile Thr Asn Ile Tyr Val Lys Pro
 435 440 445

 Phe Val Val Ile Leu Tyr Leu Ile Tyr Ala Ser Phe Ser Phe Met Gly
 450 455 460

 Cys Leu Gln Ile Ser Asp Gly Ala Asn Ile Ile Asn Leu Leu Ala Ser
 465 470 475 480

 Asp Ser Pro Ser Val Ser Tyr Ala Met Val Gln Gln Lys Tyr Phe Ser
 485 490 495

 Asn Tyr Ser Pro Val Ile Gly Phe Tyr Val Tyr Glu Pro Leu Glu Tyr
 500 505 510

 Trp Asn Ser Ser Val Gln Asp Asp Leu Arg Arg Leu Cys Ser Gly Phe
 515 520 525

 Thr Ala Val Ser Trp Val Glu Gln Tyr Tyr Gln Phe Leu Lys Val Ser
 530 535 540

 Asn Val Ser Ala Asn Asn Lys Ser Asp Phe Ile Ser Val Leu Gln Ser
 545 550 555 560

 Ser Phe Leu Lys Lys Pro Glu Phe Gln His Phe Arg Asn Asp Ile Ile
 565 570 575

 Phe Ser Lys Ala Gly Asp Glu Ser Asn Ile Ile Ala Ser Arg Leu Tyr
 580 585 590

 Leu Val Ala Arg Thr Ser Arg Asp Lys Gln Lys Glu Ile Thr Glu Val
 595 600 605

 Leu Glu Lys Leu Arg Pro Leu Ser Leu Ser Lys Ser Ile Arg Phe Ile
 610 615 620

 Val Phe Asn Pro Ser Phe Val Phe Met Asp His Tyr Ser Leu Ser Val
 625 630 635 640

 Thr Val Pro Val Leu Ile Ala Gly Phe Gly Val Leu Leu Val Leu Ile
 645 650 655

342-42PCT.txt

Leu Thr Phe Phe Leu Val Ile His Pro Leu Gly Asn Phe Trp Leu Ile
660 665 670

Leu Ser Val Thr Ser Ile Glu Leu Gly Val Leu Gly Leu Met Thr Leu
675 680 685

Trp Asn Val Asp Met Asp Cys Ile Ser Ile Leu Cys Leu Ile Tyr Thr
690 695 700

Leu Asn Phe Ala Ile Asp His Cys Ala Pro Leu Leu Phe Thr Phe Val
705 710 715 720

Leu Ala Thr Glu His Thr Arg Thr Gln Cys Ile Lys Ser Ser Leu Gln
725 730 735

Asp His Gly Thr Ala Ile Leu Gln Asn Val Thr Ser Phe Leu Ile Gly
740 745 750

Leu Val Pro Leu Leu Phe Val Pro Ser Asn Leu Thr Phe Thr Leu Phe
755 760 765

Lys Cys Leu Leu Leu Thr Gly Gly Cys Thr Leu Leu His Cys Phe Val
770 775 780

Ile Leu Pro Val Phe Leu Thr Phe Phe Pro Pro Ser Lys Lys His His
785 790 795 800

Lys Lys Lys Lys Arg Ala Lys Arg Lys Glu Arg Glu Glu Ile Glu Cys
805 810 815

Ile Glu Ile Gln Glu Asn Pro Asp His Val Thr Thr Val
820 825

<210> 622
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 622
cagctctact ctttagcatc c

21

<210> 623
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 623
ccttttagttc catgacccat g 21

<210> 624
<211> 6035
<212> DNA
<213> Homo sapiens

<400> 624
ggcggcgggcg gcggcgggccc cgggcgctga gcgggtgccc ggcgcggaga gcggcgagcg 60
cagccatgcc ccaggccgcc tccggggcag cagcagcggc ggccggggcc gaggcgcggg 120
ccggggggcg cggggggccg gcggcgggccc gggcgggacg atgaagcggc agaacgtgcg 180
cacgctggcg ctcatcgtgt gcaccttcac ctacctgctg gtgggcgccg cgggtcttcga 240
cgcgctggag tcggagcccc agctgatcga gcggcagcgg ctggagctgc ggcagcagga 300
gctgcggggcg cgctacaacc tcagccaggg cggctacgag gagctggagc gcgtcgtgct 360
gcgcctcaag ccgcacaagg ccggcggtgca gtggcgcttc gccggctcct tctacttcgc 420
catcacgctc atcaccacca tcggctacgg gcacgcggcg ccagcacgg atggcgggcaa 480
ggtgtttctgc atgtttctac cgctgctggg catcccgcctc acgctcgtca tgttccagag 540
cctgggcgag cgcatacaaca ccttggtgag gtacctgctg caccgcgcca agaaggggct 600
gggcatctcg tggccttcgc ttcgtctcat ccttacgggc ctcacggtca tcggcgccctt 660
cctcaacctc gtggtgctgc gcttcatgac catgaacgcc gaggacgaga agcgcgacgc 720
cgagcacgcg gcgctgctca cgcgcaacgg gcaggcgggc ggcggcgagg ggagtggcag 780
cgcgcacact acggacaccg cctcatccac ggcggcagcg ggcggcgggc gcttccgcaa 840
cgtctacgcg gaggtgctgc acttccagtc catgtgctcg tgctgtggt acaagagccg 900
cgagaagctg cagtactcca tccccatgat catccgcggg gacctctcca cgtccgacac 960
gtgcgtggag cagagccact cgtcgccggg agggggcggc cgctacagcg acacgccctc 1020
gcgacgctgc ctgtgcagcg gggcgccacg ctccgccatc agctcgggtg ccacgggtct 1080
gcacagcctg tccaccttcc gcggactcat gaagcgcagg agctccgtgt gactgccccg 1140
aggggcctgg agcacctggg ggcgcggggc ggggacccct gctgggaggc caggagactg 1200
cccctgctgc cttctgcccc gtgggaacccc gcacaacatc cctcaccact ctccccagc 1260
acccccatct ccgactgtgc ctgcttgac cagccggcag gaggccgggc tctgaggacc 1320
cctggggccc ccatcggagc cctgcaaatt ccgagaaatg tgaaacttg tggggtcagg 1380
gaggaaaggc agaagctggg agcctccctt ccctttgaaa atctaagaag ctcccagttc 1440
tcagagaccc tgctggtacc cagaccccca ccttcggagg ggacttcatg ttccgtgtac 1500
gtttgcatct ctatttatac ctctgtctcg ctaggtctcc caccttccct tggttccaaa 1560
agccagggtg tctttgtcca agtcacccct actcagcccc actccctttc ctcatcccca 1620

342-42PCT.txt

gctgtgtctc	ccaacctccc	ttcgtgttgt	tttgcattggc	tttgcagtta	tggagaaagt	1680
ggaaacccag	cagtccttaa	agctgggtccc	cagaaagcag	gacagaaaga	aggagggaca	1740
ggcaggcagc	aggagggggc	agctgggagg	caggaggcag	cggcctgtca	gtctgcagaa	1800
tggtcgcact	ggaggttcaa	gctaactggc	ctccagccac	attctcatag	caggtaggac	1860
ttcagccttc	cagacactgc	ccttagaatc	tggaaacagaa	gacttcagac	tcaccataat	1920
tgctgataat	tacctactct	taaatttgtc	gagtgatttt	tagcctctga	aaactctatg	1980
ctggccactg	attcctttga	gtctcacaaa	accctactta	ggtcattcagg	gcaggagttc	2040
tcactcccat	tttacagatg	agaatactga	ggcctggaca	ggtgaagtga	ccagagagca	2100
aaaggcaaag	gggtgggggc	tgggtgcagt	ggctcacacc	tgtattccca	acacttttgg	2160
aggctgaggt	tagaggattg	cttgagccca	ggaattcgag	accagcctag	gcgacatagt	2220
gagaccccat	ctctacaaaa	aataaaaaat	ttaccaggtg	tgggtggcacg	tgcttgggag	2280
tcccagcgac	ttgggaggct	gaggtgggag	gattgtttga	gcctgggagg	tcaaggctgt	2340
agtgagccct	gattacacca	ctgtactcca	gcctgggtga	cagggcaaga	ccctgtctca	2400
aaaaaaaaaa	aaaaatggca	aaggagagaca	agagcccagc	ctacttggtc	ctagccaaag	2460
tgttctttcc	ttccagcttg	gcctgtctct	aaaagcaaag	ctcctgcagt	gtacatcctg	2520
gcatttgttg	gctacctggg	ttttaaacca	gaatcagaag	tcccgggtca	gagggcactg	2580
ctgaggctca	gcctcttctc	ttcttggcca	ggaggcagca	gctctgaatg	ggccccctgag	2640
gctgcacagg	ggcctttgtc	actgggggtg	atgcttacia	acagtgcagt	tcttggcacc	2700
gaggtaaagca	gggctgggtc	tcatggcaga	aaggccagga	tctggggctc	taggaatttg	2760
ggaattgggc	agagtggcca	agaaagctgg	caggcatatc	ctatgggaca	tcacacctgg	2820
caccattgtc	attgtttggt	cctgtgtccc	aagtagctag	tgataagctg	aggctgcagc	2880
aagaaacacc	cttcccaggt	gggggagttt	ggaccagagg	tgcctctctg	ccaccacacc	2940
tgcaaccag	aagcccagat	ggaacgcagc	tgatgaaggt	gatgcttgag	gctcactttt	3000
ggggccccac	agctggagcc	ggtatagtga	ctgggacaac	atcaaggggt	ggatgagggg	3060
cctctcctcc	cgcaacactg	ccttcccatg	ctgttccccct	gccagctcct	taacactgcc	3120
gaccaaggcc	agacctggca	ttcaggaaaag	ttggagggca	gcacccatag	ggtggccagc	3180
ctcaggcccc	accccagctg	tgtcctctag	tctctgggga	cccctggggg	gaagaagtct	3240
accctgcttg	tgagtcccg	ctcagtgtgg	aggaactggc	tgcacgtggg	acctgaaggt	3300
gccctctgtg	tttatgttgg	gggggggggg	gcagtgtctg	ctgcctctgt	cctgtgtgtg	3360
accctgccct	cgaaggggtc	tgtcctgtca	gtcccagagg	agccacaacc	aaagctgcgg	3420
agagaaggtg	gggaacgggt	cggagtggcc	gtggggcaca	gcgtggcaga	ctgttcagtc	3480
tctgtgtggg	ctttcctagg	gacctggaag	gccagtgttg	cttccccctc	actccctttc	3540

342-42PCT.txt

actgcaggca	gcctctctcc	ttccccaatg	ccttatgcct	gggcacactg	ccacagaata	3600
tgcaatatgt	gtgggtgacg	atgccctcac	gaccacaccc	ccaccccg	cagcccccg	3660
actccaaagg	tcgtggctgc	cacagcctcc	ctcagctctt	cctgcctatc	tgtcttcaca	3720
ctgagaatgg	cgcccaataa	atgctatcca	cggagaccag	gctcaggctc	cagctgcctc	3780
tgtcatcgta	tgcccttgct	gctgccagg	aggggccatc	tcccaccccc	tcccctgccg	3840
gggtctacaa	acatacctag	ctgctgggtg	ccgtgggtca	cacctataat	cacagcacta	3900
ggcgggcaga	tcacctgagg	tcagaagttc	aagaccagcc	tggccaacat	ggtaaaaccc	3960
cgtctctact	aaaaatacaa	aaattagctg	agcgtgggtg	cgctgtctg	tagtcccagc	4020
tactcggcta	ctcaggaggc	tgacgcacga	gaatcgcttg	aacccgggag	gcggagggtg	4080
cagtgaagctg	agatcgcgcc	actgcactcc	agcctgagcg	atagagtga	accctgtcta	4140
aaaaaaacaa	taataataaa	ataaaataac	atacctagct	gactcgccat	gggctcgctg	4200
gcctgtgggc	gacactggct	tcccttttgg	gatttcccag	aagatccaga	ttttcttaag	4260
tccccttgga	acagactaag	aaagaaacac	cttagaaatc	acctggctct	attgtcccc	4320
cgtacatgag	taactgaggc	ccacagagag	caaatcgctt	gcctgagtca	cacagcagtg	4380
agtggcagac	ctaggctagg	aactagaact	ggggattgct	attccagtgc	tccccatcct	4440
cacacagcct	gtggagtccg	cctggacaca	ccccagctga	cagtggtaac	tccagtcag	4500
ccaggagaat	ggattccttc	tcttgacgta	ggggccccct	ggctgagtgg	cctgattgac	4560
taaaacatat	gtctttgaag	gagagtgcac	cacaagcacc	tttctttggg	gtagattttt	4620
ctctgggtct	agagggacac	ctcaggcttg	ggactgggcc	tcagaacctc	ggacagaccc	4680
tgagagcaga	cccaccttat	ccatctgggtg	ccagctcccc	aggtcagcta	cagcaacccc	4740
cgaacttcat	agagtacaat	ccacagtaat	agcacacagc	tctgtacctc	tctagctcca	4800
tgcctatcta	tctgcctacc	tttcacaaaa	taattcttag	caaccctgct	acagccaatg	4860
attctaatac	gttctgttct	attacatggt	ataaaatgct	ggtcacgatc	cactaaattg	4920
atgtctctac	ctgctaattg	tttaatacct	gcagattgaa	atatactgga	gaaataaaga	4980
gagtaggagt	agggacactt	tctcccagtg	cccacaccgc	ccctcgttac	ccgcataggt	5040
caactgaaag	atacagagag	ggaagctttg	atgggggggt	cagagttcaa	aggaagaaat	5100
gatggcacct	gcactccctg	ccccagagg	caggacacag	ccagccctcc	tgtgacagca	5160
ctcctggcag	ctccttggtg	gcctgcagcc	cttagttgcc	attgactcac	ccactcctaa	5220
ggccaccaca	tcaaaatctg	aggcttactg	ccctggccca	cctgcctctg	tctttcttaa	5280
aacagctaaa	tgcaacgata	gcagaaatta	gcttgttttt	gaggttggca	atgaccagtt	5340
caactcttat	tttcttaagc	agtgccttga	ggacataaat	gtgatgacac	ttgccctcct	5400
ttctttatcg	cctggggcag	actttacaaa	cagacctggg	aggagtcccc	taaggggctg	5460

342-42PCT.txt

catttatccc catctcccta ggggtgatca gcattgtgac agctgggcag agcagtgggtg 5520
aactgcaccc atgtccctgc tcacatctcc taagatctca gaattgcctg aggttctagc 5580
gtgggctcct tctctccaga tgatgccatc cccaccccc tcatttccac acagcatctg 5640
aggcatcctg cactaaaaga tatatgtaca gcaaaacaaa aatagaaaac cagcacagca 5700
gagtggaggt ggggtataaa tatacccgaga tccccgctga tttggttact cggggtgagc 5760
atcagatgga aatagaagtt tccggggggc aagagagaaa gagggatgta acgacaattc 5820
ttttcaaac gtgtcccatg gtatgcctcg tggaaaaaat ggttcggttg tcaaatgaat 5880
ttgggaaaat gctgtcaata tcaccgactc atggagcttc gcaaggcatc ttagcttaat 5940
aaaggttatg aaaagtcttg cagcaaagat gctgtttacc ccacttaatc cagcactgcc 6000
caaactcatt ccaaatacca gagcctctgt ttgca 6035

<210> 625
<211> 323
<212> PRT
<213> Homo sapiens

<400> 625

Met Lys Arg Gln Asn Val Arg Thr Leu Ala Leu Ile Val Cys Thr Phe
1 5 10 15

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

Pro Glu Leu Ile Glu Arg Gln Arg Leu Glu Leu Arg Gln Gln Glu Leu
35 40 45

Arg Ala Arg Tyr Asn Leu Ser Gln Gly Gly Tyr Glu Glu Leu Glu Arg
50 55 60

Val Val Leu Arg Leu Lys Pro His Lys Ala Gly Val Gln Trp Arg Phe
65 70 75 80

Ala Gly Ser Phe Tyr Phe Ala Ile Thr Val Ile Thr Thr Ile Gly Tyr
85 90 95

Gly His Ala Ala Pro Ser Thr Asp Gly Gly Lys Val Phe Cys Met Phe
100 105 110

Tyr Ala Leu Leu Gly Ile Pro Leu Thr Leu Val Met Phe Gln Ser Leu
115 120 125

Gly Glu Arg Ile Asn Thr Leu Val Arg Tyr Leu Leu His Arg Ala Lys
130 135 140

342-42PCT.txt

Lys Gly Leu Gly Ile Ser Trp Pro Ser Leu Arg Leu Ile Leu Thr Gly
145 150 155 160

Leu Thr Val Ile Gly Ala Phe Leu Asn Leu Val Val Leu Arg Phe Met
165 170 175

Thr Met Asn Ala Glu Asp Glu Lys Arg Asp Ala Glu His Arg Ala Leu
180 185 190

Leu Thr Arg Asn Gly Gln Ala Gly Gly Gly Gly Gly Ser Gly Ser Ala
195 200 205

His Thr Thr Asp Thr Ala Ser Ser Thr Ala Ala Ala Gly Gly Gly Gly
210 215 220

Phe Arg Asn Val Tyr Ala Glu Val Leu His Phe Gln Ser Met Cys Ser
225 230 235 240

Cys Leu Trp Tyr Lys Ser Arg Glu Lys Leu Gln Tyr Ser Ile Pro Met
245 250 255

Ile Ile Pro Arg Asp Leu Ser Thr Ser Asp Thr Cys Val Glu Gln Ser
260 265 270

His Ser Ser Pro Gly Gly Gly Gly Arg Tyr Ser Asp Thr Pro Ser Arg
275 280 285

Arg Cys Leu Cys Ser Gly Ala Pro Arg Ser Ala Ile Ser Ser Val Ser
290 295 300

Thr Gly Leu His Ser Leu Ser Thr Phe Arg Gly Leu Met Lys Arg Arg
305 310 315 320

Ser Ser Val

<210> 626
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: Oligonucleotide

<400> 626
agactttaca aacagacctg g

21

<210> 627
<211> 23
<212> DNA
<213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

 <400> 627
 gcttgcagga cataaatgtg atg 23

 <210> 628
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: Oligonucleotide

 <400> 628
 tgacactggc aaaacaatgc a 21

 <210> 629
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: Oligonucleotide

 <400> 629
 ggtccttttc accagcaagc t 21

 <210> 630
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: siRNA

 <400> 630
 ccacagaagg uaccaguau u 21

 <210> 631
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: siRNA

 <400> 631
 uaacugguac cuucuguggu u 21

 <210> 632
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: siRNA

<400> 632
cagcaagacu cccucuaaaau u 21

<210> 633
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: siRNA

<400> 633
uuuagagggga gucuugcugu u 21