

342-51 PCT ST25
SEQUENCE LISTING

<110> Ganymed Pharmaceuticals AG et al.

<120> Identification of tumor-associated markers for diagnosis and therapy

<130> 342-51 PCT

<150> EP 09005931.2
<151> 2009-04-29

<150> US 61/173,871
<151> 2009-04-29

<160> 688

<170> PatentIn version 3.3

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<213> Homo sapiens

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

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

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<400> 28
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tagtgagaac tgaaaccaga accnatcatg tgccacttcc tggacacctc ctattaaata 120
ttaaagtcct ctcaccacag aagccggagt ttagtgggta ggggcacagg ttcttagata 180
tgaacatcag ttgcaaccta ccaactgcat gctcttggac aatttacatt tctgtgtatc 240
agcttttcctt tttctttaga atgagatatt aatagtagca acccagaatt gtcatgaagc 300
ctaa 304

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

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<400> 29
catggcaaaag gcttgcccca aatctcaact tctcagacgt tccatacccc cacatgccaa 60
tttcagcacc caactgagat ccgaggagct cctgggaagc cctgggtgca ggacactggt 120
cgagagccaa aggtccctcc ccagacatct ggacactggg catagatttc tcaagaagga 180
agactccccct gcctccccag ggcctctgct ctctggggag acaaag 226

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<210> 30

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

<220>
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<223> n is a, c, g, t or u

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

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

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

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

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

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

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

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

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

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

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

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<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>

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<222> (497)..(500)

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

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<221> misc_feature

<222> (503)..(503)

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

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<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

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ccctgggggtc tctgaagtca gtgtctccct cactgctcac tgccatgggtg tctctgcctc 120

tgtttctctg tgtccctcat cttcctccca cttcattctg actggcaagc cctgtcctgc 180

acagcttctt ccccnacccc taggccttcc ccaganactc cctctnacta ggctggctgt 240

tctgttccct tcccnctaa nactgtggcc tggccacact cccnaggaaa taggaaaggt 300

gcagaaatca cnttggagtt gccactcntg ccnnggcttc atctcgagcc aatgtnccca 360

ggctactaag agaatgagct tccactgtat tcccatccag ggctctttcc ntttgtgagg 420

ctgacctgtg gacaagacaa tgggacaggg ataggcagtt cctccatcca ntntcataat 480

tgccaggcaa gntcttnnnn ccncctgcan nancctcccc agtggatcag gggtagaga 540

tattcaaggg tagtttcagg agcacag 567

<210> 31

<211> 448

<212> DNA

<213> Homo sapiens

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<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

taatgcggac gtaccgactg ccagatcttt acactcaccc ctccacctgc cccgaggagt 60

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ccggtcaciaa gggcccagcc antcaciaag acaccnnggt gtcccttcca tttttttcca 120
cgaaggccca gaatccattt taggtttcca aacagacctt tcgtcccttc aaggtgtaac 180
caccgttttc cattccagcc attttattgg ccacaccgtt accttactta taggtatttc 240
cccagaagaa gactccagag aggaagctca tctgaggaaa gctgagaggg aagagaaacc 300
caaacatact gaagcaaaaa aaagcctatc cttcagaaaa aagcaacaaa aagatttctg 360
ttttatcttt cgaaactaaa actattggat ttgaagatta agtatcctaa acatcactga 420
ctagaaactg ttctctttgt cagcagtg 448

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

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

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<400> 32
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ggagctgtga gagtgtgagg ggcacgttcc agccgtctgg actctttctc tcctactgag 120
acgcagccta taggtccgca ngccagtcct cccaggaact gaaatagtga aatatgagtt 180
ggcgaggaag atcaacatat aggcctaggc caagaagaag tttacagcct cctgagctga 240
ttggggctat gcttgaacct actgatgaag agcctaaaga agagaaacca cccactaaaa 300
gtcggaatcc tacacctgat cagaagagag aagatgatca gggcgcagct gagattcaag 360
tgcctgacct ggaagccgat ctccaggagc tatgtc 396

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

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<400> 33
cggtggttg caacatgctc atgccagagc ccgctcaacg ctggctggtg ggcttcgtgt 60
tgtacacatt tctcatgggc ttcctgctgc ccgtgggggc tatctgcctg tgctacgtgc 120
tcatcattgc taagatgcgc atgggtggccc tcaaggccgg ctggcagcag cgcaagcgct 180
cggagcgcaa gatcacctta atgggtgatga tgggtggtgat ggtgtttgtc atctgctgga 240
tgcctttcta cgtggtgcag ctggttaacg tgtttgctga 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

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<210> 34

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

<400> 34
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 aactcatgca acagcccttc caaggggctc cccagcaaag cctccgtggg gtctgcccc 120
 aacccctgtg cctcctggga cacaagacag gccagcaaag ggtgggggtg ccacggaaag 180
 cttggtggct gggcaggtcc ccagagggcc gccatcagtc ctcaaagaca tgctcagatg 240
 cagtggctca ggcctggcac cagctggtcc caagggtggg tggtgagggg acatctgctg 300
 tgcacacgtg gctggacgcg ctgggggcag gtccaggtca gcttcaagga ctctgcccag 360
 gctaacccta gaggcctcta gtgccagcag tta 393

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

<400> 35
 aggcccatgt gctgtttttg acttcagtac ttcagattgc tgtgggaaca caggaggcag 60
 cagccagatg agaaattgag tctgactctg gagtattata aagtccttat agttactggc 120
 attaggtata gggctctgtat tattaaagag aaattattca ccaaacactt 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
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 caaatatttg agcagtacac aagtgagtac tctgagagct cccccacca aaaatatgat 120
 gattaaatac agttatgatc agatccccag agtgtggctc taaactgtat gggggccaag 180
 tttgaatact gttgtgtctt acactgttat tacctatcca gtatctatct ccccatattc 240
 cttataaata aaacctagat ttgattggg acagtaagggt gtcccactga aaactcattt 300
 ctctaacc aa tgatgcca gtgcttgccc aaaaag 336

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

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<400> 37
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 gtacacttag ggacactaaa cttattttaa ctttttttct tcaaaaataa attaacctca 120
 gctcactgta actttataag ctttatattt aaaaaaactt tttgactctt ttgtagtaac 180
 acttagctta aaacacaaac acattgtaca gttacacaaa atattttctt aaaaaatatt 240
 ttattatata ctattctata agcttttcct tgtttttcac ttttttttaa cttttaaact 300
 ttttataaaa actaagacac aaacacacac attagtgcag gcctgcatag catcaggatc 360
 atcagtatca ctgtctccca cctccgcatac ttgtccact gaaaggtctt cagcggaat 420
 atcatgcatg gagctgtcat ctctgtgat 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
 ctgagactca agaataatat gggagcccat gaggagaaaa aggaagactg gaataatgtc 180
 actaaagctg agtcaatggg gctattgtct gaggacccca agagcagtga ttcagagaac 240
 agtgtgacca aaaacccact aaggaaaaca gattcttggtg acagtggaaat tacaaaaagt 300
 gaccttcgtt tggataaggc tggggaggcc cgaagtccgc tagagcacag tcccatccag 360
 gctgatgcc aagcaccctt ttatcccatc cccgagcagg ccttacagac cacactgcag 420
 gaa 423

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

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

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

<400> 39
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 ccagaaagt cctggcacct accttgggtt ctgtgaaaaa ataatggccc tggttttcaa 120
 tgctgcaaaa gttaagaaaa gttttcacc cttcatttta aagcagccat aaagtgccat 180
 gtgtttaacc gcaggaaaaa aagggtcttt ttaactattg agaagtagct tttcatatcc 240

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ccancagggg aangaaagag cgggaaccag gagactcgtg aggactgcaa agatggtcct	300
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
catattgcca tcttcatttt ttaattttct cacatattca tagaattgtt ctctgtaata	120
gatactgtac agtaattatt tgttgatcga ttaacctttt caatgctact tccgacacct	180
acttccccatc ctccgtgtaa cagatactgt cagttaccta tccttaacag cttttccact	240
cccaacttct gtgaatggac aagagatgca attgtgatca ctgaacatga ggcaacatct	300
tctaggaaga catttccata gtcttcagac aaaagggaga gatattttt cagacaatct	360
ttgaacaatc ctatatgaag cttacctgaa gttgctgtag ccgtttggca agtctgggga	420
gactaacaga cacactgagg atagcagaaa ataaagatag aaacagccca ggtttttggt	480
gaaattcatg agcttctgaa taacgaaccc cataccaccc tacctctata aaagaat	537

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

<400> 42 tggatcccag catcgttggc aataggggtt taggtggagt ctatctggca ttcagagaag	60
agtcaggaaa acaattgtat tcccagcctg tgtccctagg gcacaagcaa atcccaaatt	120
ctcctcctga accctccaaa tttgtctaag aacttcgaaa actttaacaa acaggctgat	180
atcttcataa tattcccagc ctagaccaag caggaagaac attgatttca ttgaaataat	240

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 tgataataat gaagataatg tttttatgat ttttatttga aaatttgcta attcttttaa 300
 tggtttgttt tctacattga tggaaatttt ctcttttaat ctatctacag c 351

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

<400> 43
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 ctcagccact gggcaggaaa gctccacatc gttgacagtc aaagtctctg cttctacaag 120
 aataggactt cttcctctcc ttaatccaac atagcagctg tgatgtcatt tctgtatttc 180
 aggaagactg gcaggagatt tatggaaagg tctcttaca ggactcttga atacaagctc 240
 ctgataactt caagatcata ccactggact aagaactttc aaaattttta tgaacaggct 300
 gataccttca tgaaattcaa gacaaagaag aaaaatactc aatgttattg gactaaataa 360
 tcaaaaggat aatgatttca taattttcta tttgaaaatg tgctgattct tggaaatgttt 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
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 caccagaac aggagagttc aggtccagga tggccagcct gttccggctc tatctgccag 120
 caatctggct gctgctgagc caactcctta gagaaagcct agcagcagag ctgaggggat 180
 gtggtccccg atttggaata cacttgctgt catattgccc catgcctgag aagacattca 240
 ccaccacccc aggaggggtg ctgctggaat ctggacgtcc caaagaaatg gtgtcaacct 300
 ccaacaaca agatggacaa gccttaggta cgacatcaga attcattcct aatttgctac 360
 cagagctgaa gaaaccactg tctgaagggc agccatcatt gaagaaaata atactttccc 420
 gcaaaaagag aagtggacgt cacagatttg atccattctg ttgtgaagta atttgtagcg 480
 atggaacttc agttaaatta tgtacatagt agagtaatca tggactggac atctcatcca 540
 ttctc 545

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

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

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

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

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

<400> 45
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 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
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 aaaacaagga ggaaggcaac cagctgttag gggaaaaata aggagataa aggagcgggg 120
 agagaaatta attgccaaacc 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

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agtgcagncc ccaccctgtc ctgcagttct ctttccctta tgataatgtg gttgagtcct 120

ttgtcactcc cntcctctg ctggctgcag aaatgacctc agcccaggcc agagacccca 180

gctctggcaa ggnccctctg tggtcgncca ggncccaggn tgaaagccaa gcagaatcag 240

gncaggatct ctagcgggan gggaaancct gataggacct ttgtcagact ttgt 294

<210> 48

<211> 432

<212> DNA

<213> Homo sapiens

<400> 48

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tatgtccaca caacacatga atgtgaatat tagtagcagc tttatccata atagtccata 120

aagtagaaac acatcaaata tctatcagct gatgaaagaa taaacaaatg ggagtgatcc 180

atacaattta atagaatcta gcacctaaaa aaataaaata ttgatacgtg ctacaacaca 240

ggtgaaccac aaaagcacat taatctaagt gaaagaagac agatacaaaa aaccacatgt 300

tgtatgactc tatttttatg atatccagaa aagacaaatc tgtagtgtca gtaagtcaat 360

taggggttgt ctggagctgg ggagtgaggaa taaggggtgg tattgatgag catgagggat 420

ttcttaggaa tt 432

<210> 49

<211> 541

<212> DNA

<213> Homo sapiens

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<220>
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 <223> n is a, c, g, t or u

<220>
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 <223> n is a, c, g, t or u

<220>
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 <223> n is a, c, g, t or u

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

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

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

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

<400> 49
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 taatgtnaca gcagtgccna ttgtaatgtt gcacaaagta gtnntagcaat ttcttggttc 120
 accaggntta gagataacat tgtagaaatg atccagcatc tttaacantc tgtgggttaa 180
 ggtggggcac ttaggggtag aatcaataac aatgttagaa atcaaattag acaagataac 240
 tgaaacagca tgatccatgt gtgactccaa gttataaagg aggacatgga ttaatgggtat 300
 acttctaggc tataggggta gtacaagtgg aaggacacca tcttagcatc agatcacttt 360
 ctgagcaact ttggcaaadc ttttaaattc tctaattgtg agtttttttaa tatatgacac 420
 aggtgtaaag aaaataaagc aagtgaatgt atgtgaaagc caatgctgac tgggcacggg 480
 ggctcacgcc tgaaatttnt agcacttttg gaggcagagc cggggatatc acttgagccc 540
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<210> 50
 <211> 393
 <212> DNA
 <213> Homo sapiens

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

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

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

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

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

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

<220>
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 <223> n is a, c, g, t or u

<400> 50
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 gcntngnnng gggacggggg gcccgngncc tcacccatcc agcctgcgct cgacccaagc 120
 agaagtaaat caagcagcag caacaatagc agccactctc cgaagggtcaa ggaagacctg 180
 cccacacag nccccctcatc ctgcatcatg gacaagaacg cagcacttca gaatgggatc 240
 ttctgcaact gatcgtctcc atgcgccctg ctctgcggct gtgtnccttat ttattgcatg 300
 cgtcgcttcc acagggggccc ctcaagagct gtgactcggg agagctacct tactttgacc 360
 aacagcctgc ccagtgtgga tgtctcttac aga 393

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

<400> 51
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 tcctcaagga ttatcttcga gagttgccc cccactcat caccagccc ctgtataagg 120
 tggtagtgga ggccatggcc cgggaccccc caaacagagt tccccccacc actgagggca 180
 cccgagggct cctcagctgc ctgccagatg tggaaaaggc cacgctgacg cttctcctgg 240
 accacctgcg cctcgtctcc tccttccatg cctacaaccg catgaccca cagaacttgg 300
 ccgtgtgctt cgggcctgtg ctgctgccgg cacgccaggc gccacaagg cctcgtgccc 360
 gcagctccgg cccaggcctt gccagtgcag tggacttcaa gcaccacatc gaggtgctgc 420
 actacctgct gcagtcttgg ccaggtgagt tcatgcccag ggcctgcacc accaatctga 480

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gccaggctgc tacaatcccc gcctgccccg acaatctcca gatgtcgcgc cttacttgcg 540
acc 543

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

<400> 52
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cttctcagag tctattccaa caccttccaa cagggtgaaa acgcagcaga aatctaacct 120
agagctgctc cgcattctccc tgctgctcat ccagtcattg ctggagcccc tgcagctcct 180
caggagcgtc ttcgccaaca gcctggtgta tggcgccctc gacagcaacg tctatcgcca 240
cctgaaggac cttagaggaag 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
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agaaggtcct tggagagaag actgggaatc caaagaagtt caagatcaac tatacgggtg 120
cgaacgagggc cacgctgctc gatactgact acgacaattt cctgtttctc tgcctacagg 180
acaccaccac ccccatccag agcatgatgt gccagtacct ggccagagtc ctggtggagg 240
acgatgagat catgcaggga ttcattcagg ctttcaggcc cctgcccagg cacctatggt 300
acttgctgga cttgaaacag atggaagagc cgtgccgttt ctagctcacc tccgcctcca 360
ggaagaccag actcccaccc ttccacacct ccagagcagt gggacttcct cctgcccttt 420
caaagaataa ccacagctca gaagacgatg acgtggtcat ctgtgtcgcc 470

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

<400> 54
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ccccttacat atcaacctct gaggaccggt ttttctgcac ctggtggtcc ttctagacgt 120
ctaggaggat cgtgttctca ggagaggggt cttcagcatc tgtgctgaag aacactgccc 180
cagcgggtca catgcaagat tccaccttcg agcaacatag ctgacactct gcagcccagt 240
tgtcacttgt aacaaacccc agtgggtcac atagtgaggg gaggcaaggc agcgtaaggc 300
agtggctgaa ctatcccaga aaacaaggat cacaggcccc cagtgcacc aatgttgag 360
aaacacctgc agtggcaagt cagatgtcct ccaggaccag gcagataaca aggagtaggg 420

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gtctgcagag gcctcgggag ggtctgcacc atccaaagaa atcaattggt ctgcacagtg 480
gtaaggatcc agtgttccca gcac 504

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

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<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
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caganncatn tngggacatc attggaacct gagcaggacc tgtaatgcac tgaaactgtc 120
catcttctct tcttattgta aatgcttctc ctgggttaac ttgtaccaga ataacctgtt 180
gtgttccatc tgcacttaca ataggggcag acaaaagaga aatatcacta cttaagatct 240
gagttgtatc cagtagtggg ggatgttctg ccattatcaa taagacatta atatactgaa 300
taacgctcca atttccgag tcacgccgtt ctgaggcaga aggcngctcc tctggcgcct 360
cttcttaggg ttcctgatcg tt 382

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

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

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

<220>
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 <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
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 gtgggggtcgt aggtgcccgc cangtagtag aggtcctgcc ggtcctggca cttgcggctc 120
 cgggccatct gtcatactg ntcgcgcgcc acgacctggc acttggtggga gatggtctgc 180
 acgtcgttct catcctcgtg gcaggactgg tacagcgcac tcttgccgtc gcactgcctc 240
 ttgcccagct tgggtctctc angggtggta gaaccacttg accttgacca ccatgttgct 300
 gccccacgac tcccacatgc tctcgatgcg gccgatgtag gggagggttg gccgcccagc 360
 tgacaggaag acngcacagt ccccgacacg cagggtctcc tcgccccgca cgatggcctt 420
 gtagaacagc ttccgggcct 440

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

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

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

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

<400> 58
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 atgcagcccc tactaagggg gagtttaagg agccatacat agttctataa ttcaaataca 120
 gtaaacatgc ttcttgctcc aggttaactt gtgctgcctc agtcgctgtt taaacatttt 180
 tatacgact gttaacctgc ctgcccatta ccctattact tttaatggnt aaactactgt 240
 tccctgggca gttgtctctt ttaacgtccc accctaaact tgccaaccct catatgaagg 300

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cctcaggctt gttattggca aagggtcagaa gtcttaagct agtgaccttg caggc 355

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

<400> 59
ccctgacggc agaagagccc agcttcctgc agccccctgag gcgacaggct ttcctgagga 60
gtgtgagtat gccagccgag acagcccaca tctcttcacc ccaccatgag ctccggcggc 120
cgggtgctgca acgccagacg tccatcacac agaccatccg cagggggacc gccgactggc 180
ttggagttag caaggacagt gacagcacc cagaaatggca gcgcaagagc atccgtcact 240
gcagccagcg ctacgggaag ctgaagcccc aggtcctccg ggagctggac ctgcccagcc 300
aggacaacgt gtcgctgacc agcaccgaga cgccaccccc actctacgtg gggccatgcc 360
agctgggcat gcagaagatc atagaccccc tggcccgtgg ccgtgccttc cgtgtggcag 420
atgacactgc ggaaggcctg agt 443

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

<400> 60
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cgggccttct agacaacagg caggaaggat gaacctcagg gcacccccag gtggtgcgga 120
aagccaggca gttgggacag aggtgcccac gagggcagag gccggtgcta aggggatggg 180
gaagaaggga caagattccc agagaggaga ggaggctgtt ggtaggaaag tggcagggct 240
gggggagacc cagccccaag ggtccggggc ggaggatgct ttgttctttt ctggtttttg 300
ttcctctttc gcgggggggtg ggggaggtca acagggactg agtggggcag agggccagaa 360
gtgccagcct ggggagccgt ttgggggcag ccccttctgc ccacccatc cttcttcctc 420
tccagagatg ccaggggggc gtgtatgctc tgcccttcc ctcagacagg ggctgggtgg 480
ggaggctctt taggctcagg agaagcattt taaagaaacc cccaccctgc cgcccgcat 540
ataaacacag ga 552

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

<400> 61
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tcagccactg gcgaggaaag ctccacatcc ttgacaatca gagtcattgc tcctccagga 120
ttaggaactt ttgtctttca ataatccaag tagcagccct gatgtcattt ttgtatttca 180
ggaagactgg caggagattt atggaaaaga ctatgaaaag gactcttgaa tacaagttcc 240
tgataacttc aagatcatat cactggacta agaactttca aaattttgat gaacaggctg 300

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ataccttcat gaaattcaag acaaagaaga aaagaactcc atttcattgg actaaataac 360
a 361

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

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

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

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

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

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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 atggttcggt gaatctccca agctggcacc cccactccac 240
tccaagtgcc aagtggttgg cttgtcccg cccgtcctcc ctggctccag ctttgtttat 300

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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
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ttgtacctta tccctgacaa tcagcagaac ataacagcag ccctgcaaag gggctttcca 120
ggagattaag gtgactgaga gcctcactgt caacccccctg cagagatggg gagcatccct 180
aggttctggc gtacattggg ccctaatagt cataagtatc atagctgaga tcctagtagt 240
gagctgttgc tctctgtatt gttgttgtgg gttatggact cagggctccg ccatataggc 300
atgtgtccct gcctggagga cgccctcagc ctaggggggtg tagtgtaagg gaaatggctg 360
tgcttttagtc aggagtaggc tgaggcagcc ttctggtgca gcatgactca gtgggtttgg 420
agtgcaagca cacaaccttg ctcgttatgt aaccacacca catgaggccc attaggtaac 480
aactcacatg agctcgtgtt tggctcagag ccactattgt ctgtaaaagg tataccttgc 540
tgatgctgca ca 552

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

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

<220>
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 <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>
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 <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

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 atgcatgcat aagatcacag gaagacatgg aaatgaatgt ttttcctcag aaaaacctgc 120
 agcanannng cnnnnnnanc ttcaaccctg caatgagaaa attaattgtaa ataccataac 180
 atcaccacaga ctggctgctc tgactttcaa gtgcctggga gatcagtggtc cagtgtactg 240
 ccgagtgata cgtgaaaaga acctatgtca ggacatgcgg tggatcagc gctgctgtga 300
 aacatgcagg gacttctatg cccaaaagct gcagcagaag agttgacctc tagcaggctg 360
 gctggatcac agctcttngc aattacatta ttataaaca cacacactag catgtttttc 420
 nagaccaaatt attatcagat tacatataat ttaatcaaatt taattttattt tttntgcctg 480
 ccaaacatcc aatgtggtgc ttgttttg 508

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

<400> 67
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 caggagaaaa gccttataca tgtccctttt gtaagacaag ctaccgccag tcatccacat 120
 accaccgcca tatgaggact catgagaaaa ttaccctgcc aagtgttccc tccacaccag 180
 aagcttccta agctgctggt ctgataatgt gtataaatat gtatgcaagt atgtatatcc 240
 ctatagtatt tatctactta ggatataaga tataatctcc tgattatgct ttcaatttat 300
 tgtcttgctt cattaaaatg taaggctaag gagagcatgg aatttgtcag ttttgttcac 360
 taaagtattc caagtgggtg ggaaagtgga acatttccaa gaaccaataa 410

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

<400> 68
 cacaggatgt ggtctctacc gtgattcctg agcatgcatg cacccttct cctgccata 60
 gaggggagga agtcggaggg gtgtctttat gcctataaac ttgccttgga atccagcctc 120
 actccctttc ctcttgaggt tgagaagccc ccacagagac tggctatggg ggagtgactg 180
 tctataggtt ccttgatgt cctgcctatc tgcaaatga gaatgagatc gataccttca 240
 tgaggctgta agatggcaga tataaaagtg ctgtgttatc tcaaaaggg g 291

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

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

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

<220>
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 <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
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 atatnaatta cttatgattt ccctgttttt tcttcctata aggaagctga ggcacaagtt 120
 aatcaaagtc tcttggccta gggtgacaca gctaagattt gtacctagag atttctgagt 180
 gttgacttct ctctgcccc cacctatctc cccccccnna aaaaaaaca caacaacaac 240
 aacaacagaa cataccaggg attcatggct tgcccaatgt tggaggggga gaagagagga 300
 gagggatgag ataagctcct cccacc 326

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

<220>
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 <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
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 ncatttttagt agtctgtgca taaggtagta atacatgtac acaaagaaaa attcacaagn 120
 cccattcagg tgtcttttag aacattatatt anccactaaa tattttataca gttgacataa 180
 tgcttattat gcccttgaat aatagaatatt 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
 gcccaaattcg cgcaggtctg ggacctgatt gcggggccacg aggcgcaatt cggggcgagg 60
 ctgctgctca ggctcttcac ggtgtacccc agcaccaagg tctacttccc gcacctgagc 120
 gcctgccagg acgcgacgca gctgctgagc cacggggcagc gcatgctggc ggctgtgggc 180
 gcggcggtgc agcacgtgga caacctgcgc gccgcgctga gcccgtggc ggacctgcac 240
 gcgctcgtgc tgcgcgtgga cccagccaac tttccgctgc taatccagtg tttccacgtc 300
 gtgctggcct cccacctgca ggacgagttc accgtgcaaa tgcaagcggc gtgggacaag 360
 ttctgactg gtgtggccgt ggtgctgacc gaaaaatacc gctgagccct gtgc 414

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

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

<220>
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 <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>
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 <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
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 ggtacctnng aagactttct gattcaatgc ttccacctc ctctacccc tcaccacccc 120
 cgtnggcatg aaatcctnng gggctgcttt agaaattgtt ttctttggct gctggtgggg 180
 gtgctgctgg tggggggttg cacagctnng canactgcan ccagtctggt ggggggtttgc 240
 anagctggca nactgcancc agtctcctgc ctgctgccaa naaggnccat ttcccaagca 300
 ctggcttttg agaagttggg gctctgaagt gggaacacaa ggctgccttt tgcaggncca 360
 ggtgtaaatt ctccccctgc cactttcagc ctagcgtgaa acagatggag tgtgcattcc 420

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cacttccctt tatggtaccc tggaatgatg gagctgccc gggcatcgcc acgttactct 480
ctagacagtc tctttgtctt cctgcaatgg cagcgccgag gttgtatatt tct 533

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

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

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

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

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

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tggccttttag agatgtgagt tgtgaggcac tggggaggga ggcacacgtc ctccagccca 180
agactgccta atttaacagg gattttctgca ttctggaaca agcctnccat tttnncccca 240
agcaggatta ctncagagg gcaaaacaca gncccaatag tatcacattt cttttctgct 300
ttagcaaaaa taaccactgt ctatttcag ggaaaaggcc gccaaacaaa ttgtttactg 360
gaaccatttg taacaacttc tagtttgcac tgccttggag caagcacact ttgttagagga 420
gggatttgca gttacttggg caacaaggta accactgatc attacaggaa gcttcagaaa 480
ccgtgggacc ag 492

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

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<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

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

<400> 74
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 gtcaacacca ccattctgtgc cggctactgc cccaccatga tgcgcgtgct gcaggcggtc 180
 ctgccgcccc tgcctcaggt ggtgtgcacc taccgtgatg tgcgcttcga gtccatccgg 240
 ctccctggct gcccgcggtg ngtggacccc gtggtctcct tccctgtggc tctcagctgt 300
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<210> 75
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 75
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 tcttaggatc atcaaaagaa aaagaggatt tggattatgc aaaaaatgat tcctatatat 180
 ataataaatt atctaactga catttttgca aatctaccac aacttcgcct tttattgcat 240
 atgctaaaca agcagatgct aagtctgtaa actgt 275

<210> 76
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 76
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 tt 62

<210> 77
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 77
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 ctgttcctct tctttatcta aaagtgtttt ttcctttctc agcattccac aagttacttc 120
 ctcttcctt tgttctctc tgcctttgcc tcttttaaag agttccaagg tgctggccaa 180
 tcgggacaaa tacagaatgt gaggtcccat tccagccctg gaaactggac acagcagtag 240
 ggcggacgca tcaagtata aatgaccctg tcccctttgt tcgctgtact ctctgggcaa 300
 aactgctgga gagtgtagcc tttctgcaga aagtaaaaaa aaatggcctt gctgaggaaa 360
 ttaatgttca agtgctatct ctttatggca ctggggaaca agcatttcaa acagacctga 420
 ggtttacccg atttctgctg gaaaagaaac ctgaggtctg ctgcttaga a 471

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

<400> 78
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 tgaacttagt tgccaataat cataatcatt agcttttcaa ggtttgctct gaaacttaca 180
 aaccatgcaa aagtgaaaac ttaggcttaa catatttggc aatttaaadc aactaaattg 240
 aatcaatcta aatactgctt tgcaaagtaa aaaaggaatc aaaatgacac ataagacaat 300
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<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
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 ggcctggtgg 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
 gatgacaaa taaatcattc aagaatgaaa tgaaaactcc ttatctcctt ataggatctg 420
 agctcagtga tgagaagtgg aaggacaata attgaccaat cacacattta natgaataaa 480
 ttaggccggtt ggtgttcagc agcaa 505

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

<400> 80
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 tttaattacc atcagtgcac gaaattatct ttattattca cttgttttta ttataatctt 120

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ataatttcaa ataaaatgta aatctactgt cccttgcttt acctccgtgt cttcagtgcc	180
tagaacagga ctgtcataca cagtgactca 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
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atcaaaagggt agattatcca ggtgtgcctg atttgatcag gtgggtccctt aaggaggctt	180
aaaatgaccc tttctgaagt agagtaattg gaaaagtaag aggggtctatg ggtgggggtca	240
cctggcaagg aactgaactc agcctccatg agctctggcc accagctgac ctttagcaag	300
aaagcaaadc tttctttggt cagtctccac aacaggacga agctgggtga gcccttgcct	360
ttggccctgt gagatgtga cccgagtatc cagcgaacac gtgccagagt cctgacccat	420
ggaaactgag atgatgagtc tgtgttgctt taagc	455

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

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

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

<400> 83 tggctctcag agaaaccgta tttgatcaga gagctaaagg aagtgagggt gtgagccaca	60
gggttatctt gaagaagagc attccaagga caggggaaac ttcctcaaag 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

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gcctaggatt ttaggggtcat cagccaaaaa tggaactgcc ttctagaaca aaaaatgaca	180
tccttttgag gaagacagtc atccagagtc tttacaatct tttaccaca ttgcctagta	240
cataattaaa cttttctaga tatgaatagg aacaggaaaa tgtgacccat aatcaagaca	300
acaagcaata aatggaaacc tacccttaag tagctaaact gttgc	345

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

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tgccacactc ttcacatttg taagggttct ctccagtatg aattatctta tgtttattca	180
ggctctgtgga ccatccaaag gctttgccac actcttcaca tttgtggggc ctctctccag	240
tatgaattct cttatgttca ttaaggggtg tgaaccgact aaaggctttt ccacattctt	300
cacatgtgta gggtttctct ccagtatgaa tactcttatg tttattaagg gttgcggatt	360
gtctaaaggc tttgccacat tgttcacatt tgtagggctt ctctccagta tgaattctct	420
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<210> 86
 <211> 229
 <212> DNA
 <213> Homo sapiens

<220>
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 <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 gggagtggac ctgcattagc aagcagagaa tgtccagagc ctagagacag ccagcccatg	60
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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

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 ccctaaaata attttagaca aattgtaaaa cctagttaaa gacatatatg ctgatatttt 180
 cagggttacc tctcttgatg tctgcaactt actttgaaat gcttcaaaag gaaaatagga 240
 taatggatgg aaatagggag agagaaatgg atcgatgtgt aaataaaaca aatctatcta 300
 aatgttaaag ctttaattgta gatgatgaat gtaggagtgt tgaatgttaa a 351

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

<400> 88
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 gaggggtggaa tgacagtaac caaatctgtg aaaatattca catgagacag gaaagaagtc 120
 agaatatcca gtgtacaatg agagtgaag aggatgtcta aaaggggaca gcccattcac 180
 aaccacaca caaccacgc acaaatattt 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
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<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
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tgtcagcttc ttccttcagc atcccaactt cctcagactt tgggggtactt ttgcacagac 120
ctagccaccn caaancactg tcatagatgc agcaatccac tttcacaaaa ccccatggac 180
aatgcagagg gggagaacag ggactgatta aagaaaggga cagaaatggc atcactatcc 240
aagactgaaa aacaggctga atggattatc actctgaccc aactgcacat ttctaattgc 300
ttcatgtttt caattactcc atgaattccc ttatctgatg ctgattatgc acaggactgt 360
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<210> 91
<211> 300
<212> DNA
<213> Homo sapiens

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

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<400> 91
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tcctccccta ttattgcct cctggaaaac ccaggaccct cttccccatc tccanccct 180
accctgggg gcagcccagg gagagccagg cacaatgagg gctcccaaca gctgcaagga 240
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<210> 92
<211> 490
<212> DNA
<213> Homo sapiens

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

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

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<400> 92
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tgtatgtacg tgtgcgtggc cctgccttgt tcttgccccg gacctggcct ggtgaaggag 180
gcacgaggaa gattgcagtc agggacgctc agcctgggag ctgacctca ggtgaggccc 240
taaggaagtt cccagacctc cctgaacctc agtatgctca tctgtccagc agcaaccctg 300
ggccttaagt gagaacatct atgcggaaga ggcagggtgcc aatcaagccc tctgtaaagt 360
tacctcccct tttcccttct tctcctctca cagagctgaa gaatattttg caaagttcat 420

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 tgtaaacatt aaaataatct tgggtgttta tcattcggtta aacctgttgg gctgacttta 480
 ggtctaccgc 490

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

<400> 93
 gagaaaagta gactcccca tgcctcgcag taaatgagga cgcctggcgc ctgcggcgag 60
 gtcaactgag gtcagacgag cttatctctc ctgtcccgga aattaagggc atcctgggga 120
 cagctgcaga gcaggaggct ccccggtgcc tcctcttcct aagcaagtca ggatcccaag 180
 aggcgcgtgc ggggaggccc ctccgaaggg ctgctggcct gtgtcttcca ccagcgcaaa 240
 ggggaagctat cggttgcttc tgcagtgagg caagctcagc cggacgcca gaagagagac 300
 gaggtgtcgc tgtcggg 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
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 gaactggcag gatattcacg ttgagctgtg cagtaagtag cttactggac atgtgaggct 180
 gaagatacag ttgttcatat ggaagcaa 208

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

<400> 95
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 cgtgactcag ctgaagtgtt caaagcacat ggaaatcact tgccagtgc aggtggacgt 180
 tgtatgtgtt ttctctctcc taaggatgcc taaactttct tttcttcaca ggtaaagtca 240
 gtgataaatc ttttgtttgc tgcataact ggagatgtgt ctgcacttcg aaggatgtt 300
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 c 361

<210> 96
 <211> 377

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<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
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tattggcaat ggttattgat agtctcaacg taatttcagt agaatttggt ttgagatttt 120
ttttatgcac ataaaagatt tctttagggg ttattgtaca gagttctagn aaaatatata 180
atTTTTTTTT ctgggcttat aactttcttt tctaaaaatt tatttggcag cctgattaga 240
aatgtggtaa aatctgaaca ataaaatagn aaatagacta gttgcataga atgtttcaaa 300
aacaggcatt agattggcgg ctactcggga ggctgaggcg ggagaatcgc ttgagcctga 360
gaggtggagg ttgcggt 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
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gtggctcccc gnccccctcag cggctcattc ctctcgtct cccacgttg gtctgtgtga 120
gctccgctgt gtggctgcca ttcacccgat ccatctgtgg acttgctggg gctgcgccgt 180

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gcacggtgtg gtgaatgcta canccanccc caggggcggg gctgagagtg gctgggacct	240
ggagcacatg gggatgctgt gtgggaacca acttgcccc caccctgtgt ctctaggggt	300
ccgcagcagt agagaagcag acagccagcc ctgtccctgc ggcgtcacc tccaccccat	360
actaaccag cagcgcattg agagatttcg ggagtgtct aaaggccttt ggagcaattt	420
agggcaatta cgggcagttt tagaaatgct gaggggttgt ttgcctgcg gggcggggat	480
ggttgcttta tgcccacagt gaagcgggcg 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	
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actaccgttc cagattttct gtaattgctt ctgcaaagta ataggcttct tgtccctttt	120
ttttctggca tgttatggaa tgatcattgt aaatcaggac catttatcaa gcagtacacc	180
aactcataag atcaaatttc attgaatggt ttgaggttgt agctctataa atagtagttt	240
ttaacatgcc tgtagtattg ctaactgcaa aaacatactc ttgtacaag aagtgttctt	300
aagaatttca ttgacattaa tgacactgta tacaataaat gtgtagtttc ttaatcgac	360
tacctatgca aactgtgta ttaggtttat catcctcatg tatttttatg 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
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aaggcagtga	ctggtgactg	gaatgaagca	tgagaatgag	ccatgcaggt	tgcccagaga	180
gagcatccag	gcagagggag	cngaaagttc	catcctcacc	cagctctgcc	ggcccaggta	240
ctttctcctc	tgccttctac	tcccagtctc	actccagtgc	aacacacttc	agttttctgg	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		
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acttcttggc	atttgtagat	120
tagcaactta	ctgtgcaccc	180
tttttaacct	gccacctagt	240
tttggcaaaa	tagtaagagg	300
ctcttggtga	gaatgatctt	360
acgtttttta	aaataataat	420
aaagttttga	tttaattgtt	480
gctgtctctg	tct	493

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

<400> 101		
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cccatatgaa	gtgccaacag	120
tataagaata	aagcgacttg	180
ccatttcaga	cagatgcttc	240
acagtacagt	actgtaaaatg	300
tctctagttt	actttattgt	360
ttgcctgttt	atgttggtggg	415

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

<400> 102		
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cgttccctgc	tggacaaggt	120
ctttgcctct	gaagaccagt	180

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ggagccccct ccccgagcc tccttgcttc tctcagtcct ctggctggcc tccttcaccc	240
tcaccgcctg tagcttggtg ctgtccagcc ccatctgaat gtgttggggg ctctgcactt	300
gaaggcagga ccctcagacc tcgctggtaa aggtcaaagt gggatcatctg ctccttttcc	360
atccccctgac ataccttaac ctctgaactc tgacctcagg aggtctctggg cactccagcc	420
ctgaaagccc caagtgtacc cagttggcag cctcccgta ctctgactaa aaagaatctt	480
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<223> n is a, c, g, t or u

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

<400> 103

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nnccncccaa acagattata catttcttgg gtcccatact ttgcatttac catagcagnt	180
ttcatagccc atacaaacat taggccttca aaatatttgt caagtatttc ttcaataaaaa	240
atgaaaacat cccaaatctt gatccnccta anatgtnaaa tgggnactta gttaagcaaa	300
ctaacatcat gatatactgg aaacaggtat ctctttcctt tacccttggtg cctgctgang	360
atcttattct cagccttgct gttttaaact caggggtgtg tgtacaacat atttaagcaa	420
attctggaat accaaagcca agcagtcctt caggggcttc atcctgncac acagcagctt	480
acctggtggg tgttgggtag cacacagta	509

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<211> 338

<212> DNA

<213> Homo sapiens

<400> 104

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gatacattat ggaggcagaa gtgttcattc aacaagcgtt tgtaaataat ctactatgta	180
atcatgatta tacaactaga gagaatatga aaaaaatgaa ttacgtatgt tagcttatag	240
atggatgctc tcagtacca tccctattaa tcgtcatttc cctttgttta gtgaaccttc	300
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<210> 105

<211> 279

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<212> DNA
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<223> n is a, c, g, t or u

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ataggatggc atctaataatt tttggaccaa cagaagaacc tcagaacata cccaagagga 180
caaatcccc aggatcatgt tttcttatgt gaaggagaag aaccaaatac ggatcttnaa 240
ngcttgcaag gagcatcccc gctgggagca gagccaggg 279

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

<400> 106
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ccctagtctc accaatcgtg gatctaactt tgctcctgag actggacaga ctgcaggaca 180
attccagaca cggacagcag aggggtgtggg tgtctggcca cagtggcagg gccagcagcc 240
tcatcatcgt tcaagttcta gtgagcaaca tgttcaacaa ccgccagcac agcaacctgg 300
ccagcctgag gtcttccagg agatgctgtc catgctggga gatcagagca acagctacaa 360
caatgaagaa ttccctgatc taactatgtt tcccc 395

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

<400> 107

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caaataatgt gtcattgagta tagaattttt atgttcatgt actagtatag ttataggatg    180
actcatattt gaagcaaagt acaaaacgca tgctttctgt agctactcat aaattctggt    240
atgagcaaaa tgtcaagatg cttgcttata accgaccaag tgatgattaa gctcttgcta    300
aactgtatca aaggagaaaa agggaaatac aggcattatcc taacaatttc acagtgaaca    360
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<212> DNA
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<223> n is a, c, g, t or u

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nacagtcctg caaaatatct tggagacaac ctgtgccatc tggagagtgg gaagagcaca    180
tgcaaaggcc aaggggtgga gcagcccagc atgttctgga aaaggtaggg ctccccaagg    240
ctgggatnat ggtggagacc tgggtgtgtg ggagcacagg ggtggggggcc cgtggggccag    300
gaatgcacag agaggggctg gtgctctgcc gcaggcccaa gccccaaaag cccggtcatt    360
cccagcacca tcttcacggg tttctgcca ggtctttctg ctgcatctct tcctcccccg    420
attccttaat cttttttttt aaaatcagtt catgtctttg taaaccaaata tttttctaaa    480
aggcaaattt atattactgc cgaaatcaag ggtcagttag ctagtttgtgt a          531

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<212> DNA
<213> Homo sapiens

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

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<400> 109

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cagacgtggt gctgccgtga gtaaaacgag cgccctctcc gcactcgttt acaaattaaa	180
atggaggaaa tttcgttggc caacctggat actaacaagc tagaggccat cgctcaggag	240
atttacgtag acctgataga ggattcttgt ttgggattct gctttgaggt gcaccgggca	300
gtcaagtgtg gctacttcta cctggagttc gcagagactg gtagcgtgaa ggattttggc	360
attcagccag tggaagacaa aggagcgtgc cgccctccgc tttgctccct tcccggagaa	420
cctgggaatg ggcctgatca gcagctccag cgctcacctc cggaattcca gtagctgcaa	480
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a	541

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 <212> DNA
 <213> Homo sapiens

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atacatgcat gagaagatac aagacaattc acccatgccca aatgattcat acaggctggt	180
taagtactgc agaaaataaa agaaggaaag gctaccagac ttttcaataa ggtctacagc	240
ttcccaagag catgtctttg ttaaatacagg aaatataaaa attatgtgtg tatgtgtatg	300
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<210> 111
 <211> 491
 <212> DNA
 <213> Homo sapiens

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

<220>
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 <223> n is a, c, g, t or u

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ccaccacacg taatgaaact tggatttgct ncagtgtctg gctgcagagc agtgggcctg	180
gccagcaggt cccagcttt ggctatgagg gccttgagtc ccccaaaaca ccgggttcca	240
gcaccacact cagccctcat tggctcttga actgagcttg gaagcttctg gtgaccttcc	300
aagagcctga gagtgaggtg gaattatttt aaaagataaa tattatatta tatatatata	360

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tatttccctg aaggaaccaa agcgaatttt aaaagatgca atgtagaggg gaaaagagat 420
 gatgaaaata tttaaaggcc ctatctgttt acagtgttcc gtggttaaac tcgctcactg 480
 ctaagaatat t 491

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

<400> 112
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 tctgggcccac gtttaccacac tctgacactc ccacctcctt caaccacatg gactcagaca 180
 aattgagtgg gctgtggagc cgaatttcac acctgggtact gccagtccag ccaatcttag 240
 atgctagcgt tacatccaca aaaccagtgt tgccttgtat aactatt 287

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

<400> 113
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 ctttggccat gatggccggg gccatgcctt gacccgacgc cggagggccca agcgtagccc 120
 taagcatcac tcacagcggg ccaggaagaa gaataagaac tgccggcgcc actcgtctta 180
 tgtggacttc agcgatgtgg gctggaatga ctggattgtg gccccaccag gctaccaggc 240
 cttctactgc catggggact gcccctttcc actggctgac cacctcaact caaccaacca 300
 tgccattgtg cagaccctgg tcaattctgt caattccagt atccccaaag cctgttgtgt 360
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<210> 114
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 114
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 gggagaagga gctgccacag tggttgctgt aggacgagcg tttccgcctg ctgctgagga 180
 tgctggagaa gcggatggac cgagcggagc acaaggggtga gcttcagaca gacaagatga 240
 tgagggcagc tgccaaggat gtgcacaggc tccgaggcca gagctgtaag gaacccccag 300
 aagttcagtc tttcaggagg aagatggcat ttttaccctg gcctcggatg aatatccag 360
 ctctctctgc agatgacgtc taatcgccag aaaagtattt ctttgttcc actgaccagg 420
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499

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

<400> 115
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 caagctcctt cagtcacatc tatttttgat atttgtgggt acctaggagg tgcataatatt 180
 tgtgggatac atgagatact ctgacacaga tgtgcagtgt gcacggatca cagggaaatg 240
 gggcagccat ccatcccttc aagcattcat gattttctttg tggtgtgaac attcccgttg 300
 tgctctctta gttattctga atgtacaaga aattattgct gactatagtc accctgtcgt 360
 gctatcaaat actagacctc attcgtggta tctaactata ttttgtaccc attaaccatc 420
 cccatctccc accccctacc tttcccacta tccatcccag cctctggtaa ccatccttcg 480
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 tgtccggggg cgtggctgcc tggagcaggt gtgtgaata ccctggatgg gaactgagcg 180
 aaccggggcc tccgctcaga gagacgtggc aggaccagcg aggaatccag cctgtccact 240
 tccagaacag tgtttcccag gccccgctga gtggaccgga cctctgacac ctccaggttc 300
 ttgctgactc cggcctgggt aaaggagcg ccatggctct ggctgttggg gtcccagggg 360
 gaggtctctt tctggacaaa cacaccctcc cagccccag ggctgtgcaa acacatgccc 420
 ctnccataag caccaacaag aacttcttgc aggtggagtg gctgtttttt ataagt 476

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

<400> 117
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 cagctgctca aactgtaaac aaggaaaaca agttgatgac ttcacactgt ggacagtttt 120
 tccaagatg tcagaataag actccccatc atgatgaggc tctaccctt cttagctgtc 180

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cttgcttggtg cctgcctctt tcacttggca ggataatgca gtcattagaa tttcacatgt	240
agtataggag cttctgaggg taacaacaga gtgtcagata tgtcatctca acctcaaact	300
tttacataac atctcaggag gaaatgtggc tctctccatc ttgcatacag ggctcccaat	360
agaaatgaac acagagatat tgcctgtgtg tttgcagaga agatggtttc tataaagagt	420
aggaaagctg aaattatagt agagtcccct ttaaattgcac attgtgtgga tggctctcac	480
catttcctaa gaga	494

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

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

<220>
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 <223> n is a, c, g, t or u

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atacatgatt acatttatgt ccttaatat gctattagtt tctgatgtta atgtaaaagt	180
tggggaaaaa ngtggaaaag ttaaagcagt gcagggttaat tcaatgccag agtancttct	240
cagaggggtgt atattcagtg tgaacaattt tcaacagaga aatgtcaact tctggccaca	300
acggcaacca gtaaaatgac tatttttact gtcttatcta ttaatgaaga ggagattgca	360
taatatagat gaaggagcat agtatttgca ggtggaacgc ctagcagggc ttgagtctca	420
actctgctgc ttttactcta attgaccgag acaagtcatt taaactaata gagcttcaat	480
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 <211> 462
 <212> DNA
 <213> Homo sapiens

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agccttctat ggatggctgg cctactgcag acacctgtcc accgtgagaa cccacctatc	180
agccctgggtc aatcacatga tcgtgtctcc agacttgccc tgcgatgctg gacagggact	240
gacagccagg atctgggagc agtaccttca cgacagcaca agttacgagg agcaggagct	300

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gctgcgctc atctactacg ggggcatcca gcctgagatc cgcaaggccg tgtggccctt	360
cctcctgggc cactaccagt tcgggatgac ggaaacagaa aggaaagagg tggacgagca	420
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 <212> DNA
 <213> Homo sapiens

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

<220>
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 <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

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agctgtctga gaatgtgtga gtggactggg tccttcggca ctgcctgcat tggctcaggg	180
cagtcaaccg tcgcagagga tgaggggcac actcaggcag cctccccggc cctggaggca	240
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gttctcttgt ggtaccacag gctgtaacca gtccaccag tgttgtttta gaaatttaaa	480
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<210> 121
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 121 ccccaagtgt gcgggcctga ttgggcggca cgggccccag aacaagcagc ctttcatggt	60
ggctttcttc aaggccacgg aggtccactt ccgcagcatc cggtcacagg ggagcaaaca	120
gcgcagccag aaccgctcca agacgcccga gaaccaggaa gccctgcgga tggccaacgt	180
ggcagagaac agcagcagcg accagaggca ggcctgtaag aagcacgagc tgtatgtcag	240
cttccgagac ctgggctggc aggactggat catcgcgcct gaaggctacg ccgcctacta	300
ctgtgagggg gagtgtgcct tccctc	326

<210> 122

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

<400> 122
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 gtgtgtttct ttgtttttaa tgagaaaatt agtcacagaa ttttaagatct tagttacttc 180
 tatagggaag gcaggggaat gggacaagga ggaagcccac agcattgggtc atgctctcat 240
 gttgaagttg ggttcaaagg tgttcattat taaaatgctt cataatgatg accatacatt 300
 tgggtatttct aggacaatct tggtttacat ctattgtctc aacataatta ttcagtgcaa 360
 gcctttcctt tc 372

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

<400> 123
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 tacctggaac atacacgccc caagtgcag attcaattca attccacaaa tattgacctc 180
 gcgtctaata cactcgt 197

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

<400> 124
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 aagatgctgg tgaacttggt cttcagctat acccaggctc agaaagggca agagccatgc 120
 tgcagcgtag gtgactttgg aggtgcactt gggggcccagg gctttgagtg ttgcgggtgt 180
 gcctgtccct ccagatagtg ctctgtttct ctctgttgtc cccctgcctg gtcctctggg 240
 gccactgtgc tttctgctgt gtgcatttat aaatgatgtg tattttatat agacctgctt 300
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 ctatggcctt agcctttga 379

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

<400> 125
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 cttcaagaac agaatttggg aattaggtat aagttcaatg ttcccatcac tcgaactggc 120
 agtggagata atgaagttgg ctttacatgg aatcatcagc cttggtcaga atgctcagct 180

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acttgtgctg gaggttaagat gcccactagg cagcccaccc agaggggaag atggagaaca	240
aaacacattc tgagctatgc tttgtgtttg ttaaaaaagc taattggaaa catttcttgc	300
aggtttgctt caagctgtaa tttagcaaaa gaaactttgc tttaattata ttatattcca	360
tttgttttca acctcatgta atttgtgcag atttgttggg aaaatacatc ttggcacaat	420
gagtgtctct gctgggtgctt ctcccaagac tatcttgaag gtgggctgtt tgcctttcgt	480
gaacacattc ttggg	495

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

<400> 126	
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ccagcctgcc tccatgatgg gaccccttac ccagcaactg ggccatctct ccctcagcag	120
cacaggcacg tatatgccga cggctgcagc tatgcaagga gcttacatct cccagtacac	180
ccctgtgcct tcttccagtg tttcagtcga ggagagcagc ggccaacaga accaagtggc	240
agtggacgca ccctcagagc atgggggtcta ttctttccag ttcaacaagt aacagtggga	300
ttccccctccc 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	
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acagatgtct ctggggcaga tccccactgt cctaccagtt gccctagccc agactctgag	120
ctgctcaccg gagtcattgg gaaggaaaag tggagaaaatg gcaagtctag agtctcagaa	180
actccccctgg gggtttccacc tgggccctgg aggaattcag ctgagcttct tcctaggtcc	240
aagcccccca caccttttcc ccaaccacag agaacaagag tttgttctgt tctgggggac	300
agagaaggcg cttcccaact tcatactggc aggaggggtga ggagggtcac tgagctcccc	360
agatctccca ctgcggggag acagaagcct g	391

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

<400> 128	
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cacgtgggca gggcaggccc catcgctttc ctctgataac cacatggaca catcctgaag	120

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tcagcccagg cgccctgagc atcttggggc acctggaccc catcacaata ctccttcttc	180
cttcaggtcc ctgggtgaag gctttgctga aaccgacccc ccttttcacg tcccttctgc	240
ctctgccccg ttggatgccc tgactggggg caggggaaga gacagggcac agctggccac	300
agggctcagc cactgagcag gctgttccgg gcctttggct ttgcatcctg gacggggagt	360
gtcctgtcag ggaccagatg tgtcctgcct catccctagc tccaatccct tccccacgtg	420
accggggatt ctggttgcaa taaaacatgc tgctgctg	458

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

<400> 129	
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gaccagtttt tcgagacagc ctacggcacc ccggaaaacc tcgcctcctc cgactacccc	120
ggggacaaga gcgccgagaa ggggcccccg gcggccacgg cgacctccgc ggcggcggcg	180
gcggctgcaa cgggcgcgcc ggcaacttca agttcggaca gcggcgggcg cggcggctgc	240
cgggagacgg cggcggcagc agaggagaaa gagcggcggc gccgccccga gagcagcagc	300
agccccgagt cgtcttccgg ccacactgag gacaaggccg gcggctccag tggccaacgc	360
acccgcaaaa agcgtgccc ctataccaag taccagatcc gagagctgga acgggagttc	420
ttcttcagcg tctacattaa caaagagaag cgcttgcaac tgtcccgcat gctcaacctc	480
actgatcgtc aagtca	496

<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	
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cactgatcca tggggccttt aagccctctg gaagcttcca ttaaagatga ttatttgagg	120
ataattgtat tgggatgcct atgatcttat ctagggtttt cctaccatc cccaacattc	180
agctcagctg cctctttctt gaggacacc tcactgatca cccagccca gccagagtgg	240
ttgctcctgc tcctgcccct gaacctatga catacccaag tccaataact ttcgagccat	300
ctgccactgc cttttgacat ctctgccttg gctagattca aatggtgttt cataataaaa	360
gtctgagttt aagcagcttt accgaaaacg caagggaagt ttcattccat ttatacttct	420
ccagaccccc tgccatcctc tgctgctacc cacacaggca gaataaaagg cttanatgtg	480
taagtcccat gaaggcaaag attggtctct tgtgttctact gctgtctgta gtacttag	538

<210> 131
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 131
 gtggcaaaag gggattcggc agctgtgatt aagaaccttg tgatggggag ggattcctgg 60
 attaccacagg tgagtttaat gtaaccacaa agatcctttc aagagggagg caggaaggtc 120
 tgaggcagac gaaagagctg tgccaagggg agcaggcggc agtgggatgc aggtggcctc 180
 tagaagctgg aaaaggcaag tccatgggtt ctttcctgga gccttcagaa ggagcacggc 240
 cttgctgacc catcttagaa cggcaggata atcaatgtgt gttgtttgag gccactaagt 300
 ttgtggcaat ttgttacagc agcaatagga aactactaca ctgtgtctga ttagatcagg 360
 ccaatgaatg gagaaagtat tggatttcag ttgagtgcga aaacctgggc tggt 414

<210> 132
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 132
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 acatcccgcc cccccccaa ctttcctccc ttcaccttcc catggagact ttttgcctgg 120
 gctaaatctg atcctcagcc cactctcaga atcgataaat gccctagggt gattgtaagc 180
 tcacctgaaga tatacttttt ctctctaga atttttagttt attagatttt tctagttgtc 240
 tttgcaaaag cgtaacagg 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
 gcgacaagggt tgtgatccac gtggcagggtg ttcagaaggc tgggggaggc cagcgctggg 60

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gagagccctg ggtacttcga ggagaccccc aagngnggct gctccacac ctgcgccagt	120
ttccaccctc tctgtgagca gggctgcggt cacctccac atctgaagag aaccaacctg	180
aggatttcac gctggctgcg tgccagacca gtccctgaca ggttgtgcga ggcccttcgc	240
tggacagccc attgctggcc actggacgga gaggcagagg gggctgaaat tcgggcccac	300
gcctctgtga gcgatgacgg agcaacagct ctccagcacg tgaagctctc cagacagctg	360
ttcgtgagaa gccagacaga ggcctggggg ctccagtcag atttctgggg agtgggggtgt	420
ccaancgtgg gccacgctgc tgggagccac ctagggaagc aggtcgcctg tttctatagt	480
gac	483

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

<400> 134	
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taacaacaga tgctcaaact gtaaacagg acaacaagt gatgacttca cactgtggac	120
agtttttccc aagatgtcag aacaagact 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
tagaaatgaa cacagagata ttgcctgtgt gtttgcagag aagatggttt gtatgaagac	420
gtaggaaagc tgaaattata atagagtccc ctttaaattcc 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	
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tttactgggc aggccttcctt cctcctggtg atgggggggt cctcagcaca aaagtgaagg	120
ggtggagggg ctggaggagc aggaatctct cttgttgata ggtatgaggc cttgaagtcc	180
ttttctttgt ccagagattc atggacgctt cggggctgat ctttgagttt tcaagcatgg	240
ggtgcagaga cgtttaggta aactcttacc gtcctctctc ttcgtcaggg cttcccagga	300
atcancaatg cccaagaagg aagggattgt agaaatagct taaccctttc atttaccaac	360
gtggaaattg aagcccaggg aagggaggg accggctcgtg gaaggagag ccatcagcag	420

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aaagagaccc tgagatcttc gcctgggatt cccaggaagt ccagccccgag 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
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gaagagctct tgctgtctgc cctgcctcac cctgccccac nccaggcccc gtggcccca 120
gctgcatcaa gtggaggcgg aggaggaggc ggaggagggt ggcacccatgg gcccgggcgg 180
tgccctccat gcccggggga tgaagacact gctgccatgg acagcccgtg ccagccgcag 240
cccctaagtc aggctctccc tcagttacca gggctctcgt cagagccctt ggagcctgag 300
cctggccggg ccaggatggg agtggagagt tacctgccct gtcccctgct cccctcctac 360
cactgtccag gagtgcctag tgaggcctcg gca 393

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

<400> 137
aacctatcgc tgacttagca accaaagcct ccatcgttag gcaaggaata aaataaaaacc 60
agcacgcttt ttccactgtg atttttaaaa gtcattaaaa aatatctttt cccttatgta 120
cagaaaaatt ggaacagaaa aatatctaac ttgctgagca tttgatggga aaaagtaaaa 180
gataacttcc atttggtaca caacttattg tacatagagc tatgatttga ggaggcatct 240
aatttctgaa 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 catgcccaag actggcattc 60
tcatacttat cctaagcata atcttcatag agggctactg cacccttgag gaggtcatct 120
gggaagcact gaatatgatg gggctgtatg atgggatgga gcacctcatt tatggggagc 180
ccaggaagct gctcacccaa gattgggtgc aggaaaacta cctggagtac cggcaggtgc 240
ctggcagtga tcctgcacgg tatgagtttc tgtggggtcc aagggtcat gctgaaatta 300
ggaagatgag tctcctgaaa tttttggcca aggtaaatgg gagtgatcca agatccttcc 360

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cactgtggta tgaggaggct ttgaaagatg aggaagagag agcccaggac agaattgcc 420
ccacagatga tactactgcc atggccagtg caagttctag cgctacaggt agcttctcct 480
acc 483

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

<400> 139
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aataaccaat gtctcactcc aaacagacag gatactacgg agccagggtc agcaaacatt 120
ttctgtaaag ggccagatag taaatatattt gggctttgtg ggccctatgg tctctgtcac 180
aacgattcaa ctctgctgtt 200

<210> 140
<211> 243
<212> DNA
<213> Homo sapiens

<400> 140
gagcgcctcc agtctagaag gcataagcca ataggataat atattcaggg tgcagggtgg 60
gtaggttgct ctggggatgg gtttatttaa gggagattgc aaggaagcta tttaacatgg 120
tgctgagcta gccaggactg atggagcccc tgggggtgtg ggatggagga gggctgtcag 180
ccagttcatt cccaggggccc 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>
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<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

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<400> 141
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 cctgtgacgt gaggccatt cttcactctt tgaagcgagc agtcagcatt cttagtagtg 180
 ggttncngnt ctgtnggang actntngaga ntattcttng ttncctgttg 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
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 tgtgatccca gtgtcatgtg ctgcccccca aaagtcccca tggctcacca agccctgctc 120
 catgagagta gccagcaaga gcagggccac agcccagaag gatgagaaat gctacgaggt 180
 gttcagcttg tcacagtcca gtcaaaggcc caactgcatg tgtccacctt gtgtcttcag 240
 tgaagaagag catacccagg tcccttgta ccaagcaggg gctcaggagg ctcaacctct 300
 gcagccatct cactttcttg atatttctga ggattgggtct 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
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 gcttataatc cagtagtggc gctgggtgtc tacaatgtca gcaagacagc gctgctgggt 120
 ctactagaa cactggcatt ggagctggcc cccaaggaca tccgggtaaa ctgctggtt 180
 ccaggaatta taaaaactga cttcagcaaa gtgtttcatg ggaatgagtc tctctggaag 240
 aacttcaagg aacatcatca gctgcagagg attggggagt cagaggactg tgcaggaatc 300
 gtgtccttcc tgtgtctctc agatgccagc tacgtcaacg gggagaacat tgcgggtggca 360
 ggctactcca ctcggtctg agaggagtgg gggcggctgc gtagctgtgg tcccagccca 420
 ggagcctgag ggggtgtcta ggtgatcatt tggatctgga gcagagtctg ccattctgcc 480
 agactagcaa tttgggggct tactcatgct aggc 514

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

<220>
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 <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	
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gggcccctgg ggtngccnt ccggcctggc ctcagccagt gggatggaca gggccaggca	120
ggcctntgaa cttccacctc ctggggcctc ccagacctcc tgtgccccca cctgtgtggg	180
caggtgggcc 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

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<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	
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ccccgggggtc ttncagtnca cnaggtcagt gcagagccca cagcctggcc cctnnccagg	120
cacagcctcn agctctggag gggncggccc ctgtgggcac agccnagcgt gtgttcntgg	180
ggacctgcnn tncctgagc gaggacgacc tgtgggcnng gcacntcttg caggcggggcc	240
cccagcacgc ggggtccac tgtccactgg aggttctggc tgagcccagc accccggact	300
cgttgcagac acgtgctacg tgctgtcatt cgccatcatc atgctcaaca ccagcctcca	360
caaccacaac gtgcgtgaca agcccacggc agaacgggttc atcgccatga accgcgggca	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
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 ggagacatca agcaggaagg ggtcgggtgca tttcgagagg ggccgcccta ccagcgccgg 120
 ggtgccctgc agctgtggca atttctgggtg gccttgctgg atgacccaac aaatgccccat 180
 ttcatctgct ggacggggcg gggaatggag ttcaagctca ttgagcctga ggaggctcgcc 240
 aggctctggg gcatccagaa gaaccggcca gccatgaatt acgacaagct gagccgctcg 300
 ctccgatact attatgagaa aggcattcatg cagaagggtg ctgggtgagcg ttacgtgtac 360
 aagtttgtgt gtgagcccga ggccctcttc tctttggcct tcccggacaa ntcagcgtcc 420
 agctctcaag gctgagtttg accggcctgt cagtgaggag gacacagtcc ctttgtccca 480
 cttggatgag ag 492

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

<400> 147
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 acagatacat taatattatc atagtttgtt taactacttg gcttttttcta acagtttttt 120
 tttttgagat ggtcttgctc tgttgcccag gctggagtgc agtgacgtga tctcgggtca 180
 ctgcagcctt gacttcctgg gctcaagtga tcatcccacc tcagcctcct gagtagctgg 240
 gactacaggt atgcaccacg accagctaata tttttgtatt ttttttttgt agagagggtta 300
 ttttgccatg ttgccaggc tagtcttgaa ctctgggct caagcgatct gcctgcttca 360
 gcctcccaga gtgctaggat tacaggcatg agccactgca cccagcctct taacaaattt 420
 tgaatataac tcctgtctta aaatctgcag aatattgaat ttttccagct attttttact 480
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<210> 148
 <211> 476
 <212> DNA
 <213> Homo sapiens

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

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

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<220>
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 <222> (105)..(105)
 <223> n is a, c, g, t or u

<400> 148
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 cttctagagg gggctggctg gagttagacc tnggggcttg gcctnggaac ccaccacaca 120
 gcccacaaagt caggaagcct ggggaaacca gagctgagac ctcttcaaca gggtttcttt 180
 gagatcctac acctccattg ggcccttttt cagtcttcaa tgggggcccc gttggctcta 240
 gaaggagaag aggtgaagca ggatcctttg ccctggggga gtctgagggc gcgggtccttg 300
 gactcattca ggccgtcttt gtagttgggg gagttccact gggcgatccc agccccctccc 360
 caccaccct ctaatggacc tctcataga agccccatct 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 cccgatccc caagacccta aagttcgtcg tcgtcat 177

<210> 150
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
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 <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
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 cttctggaat ataatgtgca tgtccaaaat gaactcagcg cttcaaaang acnaagtctg 120
 tagcctggag gggcttgagt ggatggnnagc tgatgctgtg attttgagct gtggttacat 180
 gcagtcagta aacctgtgag actgctggag gaaatgtagc agacagcatg gaggctggga 240
 cccagcagct actttgggtc atgtctttac tgtcctgcct ccaacccttt agtctcgtag 300

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acttttgttc ttgtggaaat ttcttctgta ttccagttgt gtaaataatgt atggaaaact 360
gatattacta ggttttacgt tgcattctcca gtattgatct ttggaaactg atgttacatt 420
aggttccaat tcgcaatagt agcagagact gacatgcttt tattgagctg ctaagccccg 480
tgatgatgg agcgaga 497

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<212> DNA
<213> Homo sapiens

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<220>
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<223> n is a, c, g, t or u

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

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

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

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

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

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

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

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<400> 151
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accgtcatcc aggcgattgg cttctccggc tggggcgcggt gcggctggct gtcggcaatt 120
ggattcttcc agtacagccc gggcgctgcc gtggatcatgc tgcttcagc catcatgttc 180
tccgtgtcgg ctgcnatgat ggccatcgcg atcatgaagg tgcacaggat ctaccgaggg 240
gctggcgga gcttccagaa ggcacagacg gaggtggaaca cgggcacttg gcggaaccca 300
ccgtcgaggg agggccagta caacaacttc tcaggcaaca gcctgcccga gtaccccact 360

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gtgcccagct acccgggcag tggccagtgg ccnttagagg gangcctgcc ctgcccncac	420
cgcccaccac nnnncncccn tnnttcctgc tgctaccct gtgtcccagag ggctgggagt	480
acctgggggcc ccatcccccc agctgtgatg gtggaagccg gtggtggcc	529

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

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

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gtttcaccga ctactgtgac ctgaacaaag acaaggatcat ttcactgcct 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 aagggaagaa agactttatt ctctctctta ttgtaagttt ttggatctgc	420
tactgacaac ttttaga	437

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

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

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

<400> 154	
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cgccgcctgc acccccatct gctcttcccc gcggggggccg cgcggcgcgg gctggggggc	120
cgggcagccg cgctcgggca gcggggggcgc ggggctgccg cctgcgctcg cagctggtgc	180
cggtgcgcgc gctcggcctg ggccaccgct ccgacgagct ggtgcgtttc cgcttctgca	240
gcggctcctg ccgccgcgcg cgctctccac acgacctcag cctggccagc ctactgggag	300
ccggggccct gcgaccgccc ccgggctccc ggcccgtcag ccagccctgc tgccgaccca	360
cgcgctacga agcggctctc ttcattggacg tcaacagcac ctggagaacc gtggacc	417

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

<400> 155
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 catcttcact acaaacacgc ctgagagtgg cactggggaa acataactcc atctacacct 120
 tggatttgga ctgattctcc attttatcac ctgaaggctt gggccagagc tcaacagcta 180
 ctcaactgga ggggtgaggg ggataaggctc tgtagtatac agacaggaag atggtagggt 240
 tatgccttct gtggccagag tcttgactc atggaaatag aatgaataga ggggcattca 300
 caaggcacac cagtgcagc agatgacaaa aagggtgcaga aggcaatctt aaaacagaaa 360
 ggtgcaggag gtaccttaac tcacccctca 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 gggctgtccc actgccctcc tgccccggct ttccctgtcc 300
 ctctcccaca gcccagccag agacaagga cctgctgtca tccccatctg tggcctgggg 360
 gtccttcctg acaacgaggg ggtagccaga agagaagca 399

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

<400> 157
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 atatggtgga gtggaggacc tgccctctcg tggccccggg ccagcaggtg tacagcgggc 120
 tctggcggga caaggatgta accatcaagt gtggcattga ggagaccctc gactccaagg 180
 cccggtcggg tgcgcccccc cggcgggagc tggactgtt tgacaagccc acccggggca 240
 cctccatcaa ggaattccgg gagatgaccc tcggcttcct caaggcgaac ctgggagacc 300
 tgccttccct gccggcgctg gttggccagg tcctgctcat ggctgacttc aacaaggaca 360
 accgggtgtc cctggcggaa gccaaagtccg tgtgggccct gctgcagcgt aacgagttcc 420
 tg 422

<210> 158
 <211> 414
 <212> DNA

<213> Homo sapiens

<220>

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<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

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gcaacgacga ggagctcaac aagctgcttg gtaaagttac catcgctcag ggcgggtgttc 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 aaggaacctc cttta 414

<210> 159

<211> 470

<212> DNA

<213> Homo sapiens

<400> 159

tatcaagatt gcccctgctg aaggcccaga cgtcagcgaa aggatgggtca tcatcaccgg 60

gccaccggaa gccagttca agggccaggg acggatcttt gggaaactga aagaggaaaa 120

cttctttaac cccaaagaag aagtgaagct ggaagcgcat atcagagtgc cctcttcac 180

agctggccgg gtgattggca aagggtggca gaccgtgaac gaactgcaga acttaaccag 240

tgcagaagtc atcgtgcctc gtgaccaaac gccagatgaa aatgaggaag tgatcgctcag 300

aattatcggg cacttctttg ctagccagac tgcacagcgc aagatcaggg aaattgtaca 360

acaggtgaag cagcaggagc agaaataccc tcaggagatc gcctcacagc gcagcaagtg 420

aggctccac aggcaccagc aaaacaacgg atgaatgtag cccttccaac 470

<210> 160

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

<400> 160
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caggggtgagg ggccagttga gttctgggag ctgggcacta ctctgccagt ccagagttgt 120
acagcagaag cctctctcct agactgaaaa tgaatgtgaa actaggaaat aaaatgtgcc 180
cctcccagtc tgggaggagg atgttgcaga gccctctccc atagtttatt atgttgcac 240
gtttattatt attattgata atattattat tactattttt ttgtgtcatg tgagtcctct 300
ctccttttct ctttctgaca ttccaaaacc agggcccttc ctacctctgg ggctgcttga 360
gtctagaacc cttcgtatgt gtg 383

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

<400> 161
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gggcagggga gaagcagcgt ccctcagagc caggcctggc agtggtgcta gcaggggcca 120
aggccagggga gcagggtctc ctgtcggagg gacctgggca agcccctcca cgcgccagcg 180
ggtttctcag caggggagggt ccacaccaca ccgcttgga acctgggtgc ctaaagcaa 240
caggagccaa ggcacaaatt taaccaaaca ccaagggtgc gtgaggcccc atttcagag 300
ccgggctcca aggacgtgtc cttaggcggc tctggaaggc ccagcgccag cccccgtcct 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
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caggtctagg agtacacttc tagcacctag cagagagagg cttcactaca tcatgcttcc 120
tgacatctct ccnnttgaag agcagtcaga ctctgtctt gctcttcaga cttaatttgg 180
gggtttaaca ggtgagggtt ctgggggaac tcttttaca catctctctg aaagaatccg 240
ggctgccagt ttcatttgggt ttgggtgtca gtagcatgat ggaaagacaa aaaaacacaa 300
cttgacatct gcagaaatgg gttcaaattt tacctgcaac tcaccaattc tgtggccttg 360
gttcagcaat t 371

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<210> 163
<211> 445
<212> DNA
<213> Homo sapiens

<400> 163
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caaagaactg agcgtcatgt tcattgagac cagtgcgaag actggctaca acgtgaagca 120
gctttttcga cgtgtggcgt cggctctacc cggaatggag aatgtccagg agaaaagcaa 180
agaagggatg attgacatca agctggacaa accccaggag cccccggcca gcgagggcgg 240
ctgctcctgc taatgcagag ccgacctgtg gcttcccatg acactccttg cttgttgtgt 300
tgcttcctat tggctagctt cctaaggggg gaggggaaccg agttatcaag atgggaggat 360
ttttcttttc tctctgtctt taggagtagg gtgggatggg gaggagggct gggcatcagg 420
gatcacatca ctcttaacgg ctgtt 445

<210> 164
<211> 313
<212> DNA
<213> Homo sapiens

<400> 164
ggtggcctct ggatcctccg tggaccgaac cgtccccca ggaacacacc ttcaggtaga 60
ccccgaagcc tcaaggccgg ggctggagcg gagacccag ggcctctcag gagacagtga 120
ggctgcccct cctaccacct acctattct gcctactcac cccaggggcc 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
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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

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<400> 166
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cttcggcatt tactaatggg ggactactgt ggggtaaggg ggcgcctgct tgcctgatac 120
aggatggggg caagggacag tgggcaggtc ctactcagg agtggggggg gtaggctggc 180
cagccccag ggcttgtcca ccagtcttct ccccgcaagg ccctcagagc agcgctgtg 240
gggtgtcagta ttacctgagc ctaggccaaa gctagcccaa ggctggggaa ggggaggaga 300
ctccagggtca gaatgtgagg tctcagtctg tgatttaagg tgttgcatgt ggactcttaa 360
ctgtacgtgt agtttctagt ggagaaatca aggctctgat cattttgttt ttagtatgaa 420
aatgtgattt cctttctggt tgtaactc 448

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

<400> 167
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accagctcaa gaaagaagtg aacttgaaa gaatgctagt ttccaaatgt tgtgaagaag 120
taagagatta cgttgaagaa cgatctggcg aggatccact ggtaaagggc atcccagagg 180
acaaaaatcc cttcaaggag ctcaaaggag gctgtgtgat ttcataatac aaacaaaaag 240
aaaaaaaaatt aaacaaattc ttggaaatat ctcaaagtgt aataacaata tgaatttttc 300
tcatgcatac tattactact aagcatgtac gtga 334

<210> 168
<211> 561
<212> DNA
<213> Homo sapiens

<400> 168
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ctccccgctc atgggcgact atctgctgcg cggttaccgc atgctgggag agacgtgtgc 120
ggactgcggg acgatcctcc tccaagacaa acagcggaaa atctactgcg tggcttgtca 180
ggaactcgac tcagacgtgg ataaagataa tcccgtctg aatgccagg ctgccctctc 240
ccaagctcgg gagcaccagc tggcctcagc ctcaagagtc cccctgggct ctcgacctgc 300
gccccagccc ccagtacctc gtccggagca ctgtgagggg gctgcagcag gactcaaggc 360
agcccagggg ccacctgctc ctgctgtgcc tccaaataca gatgtcatgg cctgcacaca 420
gacagccctc ttgcagaagc tgacctgggc ctctgctgaa ctgggctcca gcacctccct 480
ggagactagc atccagctgt gtggccttat ccgcgcatgt 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
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 ctttaaacag accactctgg aggagacgcc tganccagag cgctttacct aaagtccggt 120
 gcctaaantg cacccttcct ctggctggtg tctcccttct gccaaagctat gcctcctgca 180
 gaggtaggct ccgtgggtgtc tcccactccg ccccaactgg agaacgggtgt 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
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 ctatatttct ttctgccacc tgaataagca ccgaagctat gagtggagct gccgcctggt 120
 caccctcacc catggagctc tctctatagg cctctccgct tatattggct tcattgatgg 180
 cccatggcct tttaccacc caggctcacc caatacacct ctccaagttc atgtcctgtg 240
 tctcaccttg ggctacttca tnttcganct tgggctgcat ctggcgcttt gcatggagga 300
 agagcatcaa gaagtacat 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

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gtttatgtag gggctctgaag 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	
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catgaccttg ggcaaaacat cccaacacac aggagggcca aacaagcagt cagaagaagc	120
ctgagtcttg tgggtgttgt tgagcagctg aacaaacct aggatggctt ccttccagac	180
tncttaggat tgcaacaat 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	
ggttccaggc tttgcatctg gagcctttac cggttgactg ttgccttcca cacaaacagc	60
ctctgaaaag cactttctcc atacataatt ctggagaaga tgagggatct tgccctccag	120
gagccttcct tcctccccca atgaggaaat cagtcactgc actggtgcaa aggcaagcag	180
attggaattt ctgctcttca ccgattttct cagggaaga ccccttcccc ttgccagcag	240
aggaacctgt agttttttcc atttctttct tcagaaccaa agtatgtatc actcctcatg	300
ctcacaggga 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>
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<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

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ggaagggagg agcttgggca agagggacat tgctgtcgct ggttgatggt gagatggcac 120

ttaatgagaa cctgggtcatt 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 tgaacagggtg gccactgggtg gtgatggctg aaccactcat 120

taaacaaatt gctctaaatg gcctcagtat caagggtgtgc tttctgtacc cttaatctga 180

ctttaatcct gcagaacctc agtctttacca tgtttaacag cattgccatg tacgatatgc 240

ctttatccta cactgtatat 260

<210> 176

<211> 528

<212> DNA

<213> Homo sapiens

<400> 176

gctggctatg tacatgggtcc cattccctac ctgcacttct ttatgcctgt cttcaccctg 60

ctgaccatcc acagcagcca gcaactaccag gccctcatag tgcctgagct caccagcag 120

atggttgatg ccaagaacat gatggttccc tgagaccctt gccatggcca ctacctaaag 180

gtggccacag tgttcacgga ctacatgtcc atgaaggagt tggatgagca aatgcttaat 240

gtccaaaaca agaacagcag ctactttgtt gagtgaatcc ccaactatgt gaaaacagct 300

gtctgtgaca tcccactctt ggggctataa atgtctgcca cttcaacat caacagcgtg 360

gccatccagg agctgttcaa gcacatctct gagtgggtcat gtttcgggtgc aaagcctttc 420

tgcactggca catgggcaag agcatggact agatggagtt caccaaggct gagagcaaca 480

tgaacaacct ggtgtcccgg taccagtaat accaggacac ctcagcca 528

<210> 177

<211> 540

<212> DNA

<213> Homo sapiens

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

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

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

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

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

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

<400> 177
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 tttnanattt ctaganangg tttcaatata gactttctga cttttatggt atacatatag 120
 gncaatatctc tattcttctt tcctttttaa tacttactgt ttcaatttca aataaaaaat 180
 cagcattcta gtttgtagat ttttagcacag 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 aactaatttt aaatcctgac aaattagaag ttaagcctac 480

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tatctgtaaa aatatgtcct gattcatttt ttttaagtata tacctgagcc tttaaaaagt 540

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

<220>
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 <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

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 <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 tagttatttt gctgcaatgc tgagtggctg ttgggctgaa 60
 agctcccaag agtacgttac tcttcaaggt ataagccatg tagaactgaa tgttatgatg 120
 ctttttatat atggaggaac tctggacatt ccagacaaaa ctaatgttgg tcagatactc 180
 aatatggctg atatgtatgg actagaagga ttaaaagaag tagcaatcta tattttaaga 240

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agagattact gtaatttctt tcagaagcct gttcccagaa cattgacgtc tatactagaa	300
tgccctgatta 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	
gggttcacgt cattttcttg tctcagcctc cccagtagct gggactccag gcacccacca	60
ccactcccgg ctaatttttt gtatttttag tacagacagg gtttactgt gttggccagg	120
atggtcttga tctcctgacc ttgtgatcca cccacctcgg cctcccaaag tgctgggatt	180
gcaggcatga atgaccgcgc ccagccgcag gcgcaacttt tttgagtttt cctggccagg	240
cgcggtggct caggcctgta gtcccagcat tttgggaggc cgagggtgggc ggatcacttg	300
aggtcaggag ttagaaacca gcctggccaa cgtggtgaaa ccccgctctcc agtaaacata	360
caaagccatt acagggcatg 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 tggtgtggtg tgaatgctgt ggctcagtcc gaacatgttt	240

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 ttttctgtaa ttttatcatt attacacgat tgcaatatca gttttgtttt ttaattggaa 300
 agcaacattt tctactgttg aaagacgttt ttgacaaat 340

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

<400> 182
 acagcttgtc tgtcacagtg cctgttctga ttgcaggctt tgggtgttctc ctggtgttaa 60
 tcctgacttt tttcctagtg atccaccctc tgggaaactt ctggctaatt cttagcgtca 120
 cctcaattga gctgggctgt ctgggcttaa tgacattatg gaacgtcgac atggattgca 180
 tttctatctt gtgccttatc tacaccttga atttcgccat tgaccactgt gcaccactgc 240
 ttttcacatt tgtattagca actgagcaca cccgaacaca atgtataaaa agctccttgc 300
 aagaccatgg gacagccatt ttgcaaatg 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 agccgtctgg ctcagggact 60
 ccaccctggc cccgagtngc cgtntgctgg gcctttcctt cctggctctg caccatgc 120
 tggctgcccg gtctggcttc ctttcttgtc tctgtcttgg gcgaggcagc tgtgagcatt 180
 gcacagaggc aaagaccctc ctgcagcctn tgcgctgggc cgtagaaaca agagccttgc 240
 taatacngaa cctcattcaa ggattaggag tgggtggtag gtcagggcca ccccgatgc 300

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tgagggaacg gcctccaccc agctctgttg gtcagagcct gggatcatgca cctggagttg	360
ggagatcaag ntgggtctca gggcagtgag gtggccatat ccaccacatc gcatttcgtg	420
ggggaagagg tgacctcttt gttttaaact taagggtgtct 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	
gagtcctcgtc tcagtgtgga ggaacnggct gcacatggga cctgaagggtg ccctctgtgt	60
ttatgttggg ggtggggggg cagtgtgtgc tgccctctgtc ctgtgtgtga ccctaccctc	120
gaagggtcct gtcctgtcag tcccgaggga gccacaacca aagctgcgga gagaagggtg	180
ggaagggtgc ggaatggccg tggggcacag cgtggcagac tgttcagtct ctgctgggtc	240
tttcctaggg acctggaagg ccagtgttgc ttccccctca ctccctttca ctgnaggcag	300
cctctctgtc tccccaatgc cttatgcctg ggcacactgc cacagaatat gcaatatgtg	360
tgggtgacca tgccctc	377

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

<400> 185	
gtcatcctgt gctcagttag cagctcatcc agctgggtca ggaaagcctt ttggaagcgt	60
aggaccttgc cagccagcgc tgggatatgc aggaggacgg ggacagcatt cagcacctcg	120
cgcagaaagc ccgactcctc cttcagtccc tcctgagcta ggtccagcag cctgaggaag	180
cgagggtcgt cgtactcgaa gcggcgcccc caggtgaggg aggcgatcac gttgctcacg	240
gctttgtcca agagaccgtt ggggcgaaag 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

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ggctggcaac ccagaaagat tggatttcag tgccatggtg ctggctgcgg agagcttcac	60
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	
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cagctctgga gacgcagaat tccacatgag gaatgtggaa ttcagcatgg ggatgacgct	120
gcttcaccca gacttggagg agcgtggtga attgcccgtg cccatgctct gatgtgcctc	180
tctggccgct gcgttcctcc tttctccctg cnttgggtca gtgcctgtaa aactgacct	240
aaatcagcag ggccccgctc acttctgctt tatgcacctt tttcctcaga cacattaata	300
caggggagtt ttgtttccaa gggaccacat ccagatggag gggctgtttt tggatgatctg	360
cactgccaaa tgcccagagt tccctgacag tcggagctga tgaggccaag gctgtgtgtg	420
gttcctctgg atggccagaa gaggaaccaa aacactgaat tctgggcctt ctttaagagt	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	
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ccagtttaag catcctgggg tttgtctgcc tgccagagcc atggtgccac tggggctacn	120
tgctctgtgg 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
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
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 ttctagctgc ttgcgccct cctcccccaa aaatctgcta ccacaattcc anccccggcg 120
 cacgccccca agactccttt gtcgccccag gggcgggacc tgagctgtcg gtttcaggag 180
 cccttcgtga cttcaaaagt cctgggcact gttgctcatg agtgctgcac aactgtcgcc 240
 ctctaaagcc acctccatcc ctactgggc tggcctcctg agccttcggt gaggaaacgg 300
 ggttccgagt tgccgcctg agagcttaac agtctgacta gaaaagggt aattcgcttt 360
 ctgtgcaaat ctcttgagct aattatttaa tctgaaacat ggacaggtaa aggaccattg 420
 gcgggcgtgg 430

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

<400> 190
 acatcaagca gctttctcgc ttgctggag cttcaagtaa gattgctcca gtggaagcac 60
 cagatgctaa ggtgaggatg gtgatgatcg ctggatcacc agaggctcgg ttcaaggctc 120
 agggaagaat tatggaaaaa tgaagaaga aaacttcgtt agtcctaaag aagaggtgaa 180
 acttgaagct catatcagag tgccatcctt tgctgctggc agttactgga aaaggaggca 240
 aaacggtgaa tgaacttcag aatttgtaaa gtgcagaagt tgttgtccct tgtgaccaga 300
 cacctgatga gaatgaccaa gtggttgta 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
 cagtgaacaa aagccgtagt ccagtttctg tgttttcctg ggacaatgaa aagaatgaca 180
 aggactcctg gagtcaactt ttactgaag attctcaagg ccagcgggtc attgccaca 240
 acactagagc tccttttcaa gatgtaacca ataactggaa ttgggactta gggccgtttc 300

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ctaacagtcc ttgggctcag tgccaggagg atgggccaac tcaaaatctg aagcctgatt	360
tgctctttac ccaggactct gaaggtaatc aagttatcag acaccaattc taaatgtttg	420
aagctttgtt tctaaaagta ccttgaaatg atagagatgt aggaaaatat agttgtgggt	480
ggagagagga gtgagtttgt ttagggtggga 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 gagggccttg tgcagaaagt gggacgtctt ttttcctaag gtgtttaagc	300
acaggcttga taagtttggt ttttaaaaaa taatctagga aatgaataat tctaaatcta	360
gtaatgagga aactgagcat ttcttttgcc ctccaggggtg ccaagaccct acatatgaca	420
gaacccttgg cctttctcca tgcctgtggg atctgtttct ttaaagcact ttgtactgtt	480
attcaggagg ttgataatct ccttgaccca tgtctttcta ccctaattccc cacttccctg	540
cagaatcaat ctga	554

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

<400> 193	
acgcgtccaa catctcaaac ttgatctcca tctttggctc cggcttctcg gggctggtga	60
gccgacagcc ggactcctcg gagcagccgc cgccgctcaa cgggcagctg tgcgccaagc	120
aggcgctcgc cagcctcggc gcctggactc gagccattgt cgccttctag ggacccccga	180
gggcacaggg acccggggccc ccgcggggct ggggcccagac 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

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caaaataaga ccacagatcc aaaagaagag attaaacaag tttcagaaga tgattttctct	180
aaattacagt tgaaggaaag tatgattcct attactag	218

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

<400> 195 ccccacccaa atacaagtcc cagtggaaag gaaaggtagt acctattcct ctccatgggg	60
ttcctaacac cctccattac tctttcagtc tccaagcact ttgaatccat ttttaaacad	120
tcaggttgcc agacctgtca cacagtgggc tctgataggg ttacggaggg ggccctggctc	180
tcagtctcta ctctcctatg tcccatcagt tgggttgagg ccaccttcca ggggggtatgg	240
gagaca	246

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

<400> 196 caccttgacg gttccagtgt ctgtatttat gttgaaagtc cagggtgaatg acatcatcag	60
tcgtcagtag ctgagccaag cagttgtaga agtgtttgta aactacacga agacaaattc	120
cacagtaact aaaagcaatg gagcagtgtc gataaaagta ccctacaaat taggacttag	180
tttaactatt attgcttaca aagatggcta cgtgttgacc cctctgcctt ggaaaaccag	240
aagaatgcca atatattcat cagttacact ttcactgttc ccg	283

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

<400> 197 cgtccgagtg tgagtcagtc agcgacaagg ctcccagccc tgccaccctg ccagccacct	60
cctcctccct gcccagccca gccaccccat cccatggctc tcccagttcc catgggcctc	120
cagccaccca ccctacctcc cccactcccc ctctgacagc cagtggggcc accacagctg	180
ccaacggggg tagcttgaac tgcttcgaga caccatcctc caccagcagg gggcgcaaga	240
tgactgtcaa cggcgctccc gtgccccctt taacttgagg ccagggaccc tctcccttct	300
tccagccaag cctctccact ccttccactt tttctggggc cttttttcca cctcttctac	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 ctctcttggg cggcaggctc actgccaggc 60
 cagcctccga gagggagaga gagagagaga ggacagcttg agccgggccc 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 ggagggagag ggaggtcact ggaaagggga 420
 gagcctgctg gcacccaccg tggaggagga aggcaagagg gggaggagggt gtgtggcagt 480
 ggttttggca aacgctaaag agcccttgcc tccccatttc ccatctgcac cccttctctc 540
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 <222> (122)..(146)
 <223> n is a, c, g, t or u

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 <222> (182)..(200)
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<220>
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<222> (453)..(478)
 <223> n is a, c, g, t or u

<220>
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 <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
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 cnnnnnnnnn nnnnnnnnnn nnnnnntgga tattggtgcc ctcaagccag gtggacggca 180
 annnnnnnnn nnnnnnnnnn gagcacgaga gctttgagaa gcctcagctg ctgactgtga 240
 acctcaccgt gtactacccc ccagaggtat ccatctctgg ctatgataac aactggtacc 300
 ttggccagaa tgaggccacc ctgacctgcg atgctcgag caaccagag cccacaggct 360
 ataattggag cagaccatg ggtccctgcg caccctttgc tgtggcccag ggcgcccagc 420
 tcctgatccg tcctgtggac aaaccaatca acnnnnnnnn nnnnnnnnnn nnnnnnnntg 480
 ccctaggagc tcgcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagcn 540
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<210> 200
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 200
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 agctattgag gagtctttac agcaaattaa gattcagatg ccttgctaag tctagagttc 180
 tagagttatg tttcagaaaag tctaagaaac ccacctcttg agaggtcagt aaagaggact 240
 taatatttca tatctacaaa atgaccacag gattggatac agaacgagag ttatcctgga 300
 taactcagag ctgagtactg ctccagggtg gtgtgcaatc ttatatattgat gcttgtgaat 360
 ctgccatttg atttgtagga taaataaata tgtttaatat taacaacttc catcaaaact 420
 ataataataa tattatatct actgttgacc tctaacaaca atcagggtgct gtattcagag 480
 tcata 485

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

<400> 201
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taggaccagg ccataccttgg ctccagagct cgaagacccc aagacagccc tctgctctca	120
gcggcgccac agagagcctg ggctcagcct tctgcatcag gacatggcct cgtccactga	180
gggcacgatt taaacatttg acatcagaag ctttatttgt aaacctcaca cagataagga	240
ccaagggctg gcggtgtggc cagaggacag ggggaagctga aggccccgtg cttgagctcg	300
gcagtcctgc tccttgcagt gaagccacca tgggtgaccg tccagcctca cccggtggcc	360
tgcacagtga ggggaagggct tcagggccat ctgctcccag ggcaggggac aggccaccaa	420
ggaccttttg ca	432

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

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

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caagtacgag gcgctgcaga ctttcgcgcg caccgtggcc cggggacctg tggcgccctc	120
caaggtggcc accaccagcg tcatcaccat cgtcaagtcc accgagctct cctccacctc	180
cgtgcccttc tcggctgcat cctagtgccg gccgggggcg ggggggtggcg ggcggcgggc	240
ggcgggcagg cgggtggggg cacaccctc gtacctgtca ctgggatgca gactctcgac	300
atccgagtcc aagcgcaggc ccctcgggcg caggcagctc acaccaggaa gagactgtat	360
tgcaggggtga agagtgggct cccgtgggcc cagagctgca cgccgggtcca 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	
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gactatatat gcttgtaaac atttccagat tatgttattc ttttaancta aatatgtgtc	120
cttatgccaa taccctctc catctattac tgcagtgtat gataagtctt gaaatctagt	180
agtgtaaagt cttcaacgtt gcccttaatt tttaaaatca ctcttgctat ttaaaattgt	240
ttgtattaca tggaaaatttt ataatcagct tgccaatttc tacaaaagtc ctgctgagat	300

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tttaattggt attttgcttg ttctgcagct taatgcaaga aaattatctt aacaatattg	360
aatTTTTcaa tctattaaca tggtatatat tactgtttac ttaggatttt ttcacttttc	420
ctgccttggt ttgaactgat attgtggttt taagtaattt tttttatttc tactattggc	480
ttagtaacta tgccccactt tttagatttg tagcacagtt gaccattgaa caacacaagt	540
ttgaattgtg catgtccaat tgtctatgg	569

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

<400> 204	
ggagcagaga cagagcgacc catacctggc ccaggccccc gccccgcagg cagctgaatt	60
cctgagccca gtgacaaccc cttccccctg cactctgtcg tccgcccag cctcaggccc	120
tgaggctgca gatgagactt gtccccagct ggctgtccat cctcctgggtg tcagcaagct	180
gggtttgcag tgtcttccaa gcgacgggtg tcagaatgtg aaccagtgac tctcgggcgc	240
ccctgtggta actttgcagg cggccc	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	
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aagccgcaca agtgtgcggg ctgcggcaaa ggcttccgnt atnaaaacgc acctcgcgca	120
gcaccagaag ctgcacctgt gttaggggct gggctccgcg gaggtgccc tctggggagc	180
ctgtgggggg tagatatcct gggactgacc caggggaagg aagtggggaa ggggcgggag	240
ggacaatctg agagtgactg gggagccttt ggtgtttggg gtttcctgaa gtgggaggag	300
tgttgagtaa gttggtcttt cccggtgcta tacttgctc ctctccacgg aagaattgtt	360
caggagatgc gcttggggtg atgacttcct taaatacacg ctgtaggggg tgaagagctt	420
ggaggaccag gcactttgag gaagggcagt tcgtgggctg gggtggaac aggatggcgg	480
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<210> 206
 <211> 439
 <212> DNA
 <213> Homo sapiens

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

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

<220>
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 <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
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 gtgggaagtc cagagctcaa accatgtgcc ccagaggact ggtgctggca ttaagcctgt 180
 aaatcaaagg cttctttggc aggaccctgg gctgttagaa tcaccctagg gagcagagcc 240
 aggggacatt ttggcccctg actagcaagg cacaacccta taatggcaga agcccttctt 300
 tccccctccc gtttcccacc agaccactt ccttgatggg cctctagcac cttccaagc 360
 tgatggggtc gggaatgtga gctggtaaaa tgggcagtgg aaggggctgt actgtttctt 420
 tacatctcac ggggactag 439

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

<400> 207
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 ctgatctccc tgaattccac ccttcagatt caatgcaaat caggcactgt tgcagagggtt 180
 ataaacatga gataccagcc acgaccttgc cagtaccttc cttaggcaac caccatactt 240
 attgtaacct gcctctgacg ctactcaacg gacagctacc ccttaataac accctgaaag 300
 ataccagga atttcacagg aacagttctt tgctgccttt atcctccaaa gagcttagct 360
 ttaccagtga tttt 375

<210> 208
 <211> 502

<212> DNA
<213> Homo sapiens

<400> 208
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gggcaggga atgggccaat gcatgttca gggccacacc cagcagtttc cctgtcctgt 180
gtgaaatcag gcccattctt cctctgtgt ttgatgagag aagtcagtgt tctcagtagt 240
agaaggcaca gtgaatggaa gggaacacat tgtatactgc ctttaggttt ctcttccatc 300
gggtgacttg gagatttctt ttgtttccc ttggttaatt ttcaaatt gttcctgtaa 360
taaaagtttt agttagcttc aacatctaag tgtatggatg atactgacca cacatgttgt 420
tttgcttacc catttcaagt gcaagtgttt gccattttgt aaaacatttt gggaaatctt 480
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<210> 209
<211> 250
<212> DNA
<213> Homo sapiens

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<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

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<222> (114)..(116)
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<220>
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<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>
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 <222> (131)..(132)
 <223> n is a, c, g, t or u

<220>
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 <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>
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 <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

<400> 209
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 caggccaccc ggccccttcg gccctctcgg cccaccccc tgcagccggn gncnnncnnc 120
 nncnacnana nngcngcgag aagangacag angngactga gcaaaggggg gtgggctcca 180
 ggcgaccctt 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
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 tagaacataa aattcaccaa gaatttcaag ataaaaatac taatgttttg cttgtttggg 120
 ttatttcaaa caataacttt gnnntctata attttttcac caccgaccct ctacctcctt 180
 gcatgctcat tctcctgtgt ggctagatgc atttcgggtg ttttgaatat tatttcagag 240
 caagtatcat tccagaaaat aagttttaaag tttgaaatgt ttattttttg taacccatga 300
 atcttcagct taagtatctt ctgacataaa agcattttca taattataaa agtgctgata 360
 ttactctcca cagtattata tctgatcctg caaagtagtt cagataccag agaatactct 420
 taaacatttt gactcacgca 440

<210> 211

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<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 tatcgtagtgt aaaagatgac cctgagctat 360
gctgaatacc ttgctcatcg ccagcatcat catttccaaa atggcattgg gcatccccctt 420
ccgccataca accattattc ctgacactga gccgcacaac cagtactggt 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
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tcctggggga aaagggaccc tcaggatggc atgagagggtc ctcaatccca agtgtggaac 120
tgtccccctc aacttggtta aatgcagatt tctgggtctt gccaatgggg cctgggactc 180
catgtgacaa ctggcccagg agcttctgat gtcacacaga attctgcagt cccaagctcc 240
agccccgacc tgctctgctg ttcttaggtg actgccctca cactgctgac cacagtggat 300
ttctccccct gctgctcggg ctgagctggg gtcagccctg cttataaggt caactgtgca 360
aaaccttata ctggccaaga acaaactagt gctggggggag gagggctggg tgccccggcc 420
actggtggag tccccaggaa atcctcagag ctgttgcgag gatgagacac atttgtggac 480
acgtccacct gtcctcctga ccgtctggag agaa 514

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

<400> 213
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cggacttggc ggccgagagt aacttccgga tctacccttg gatgcgaagc tcaggaactg 180
accgcaaacg aggccgccag acctacaccc gctaccagac cctggagctg gagaaagaat 240
ttcactacaa tcgctacctg acgcggcggc ggcgcatcga gatcgcgcac acgctctgcc 300
tcacggaaaag acagatcaag atttggtttc agaaccggcg catgaagtgg aaaaaggaga 360

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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
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taatggcttg ctttccaatg tttatgtctg ctctgggcct gactgtggcc tgggaaatga 180
gcatgtctgtc 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
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ccatcccatt ttttagaggt gaaatggcct ccatattctc cctcggaaca cgcagagcat 180
tagtatctat gtagtaggtg ggaccgcctt gtttgccctt atcgccatct atttccatta 240
atgtgcttcc gtcattctct 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
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ggagaggata tatctgaata cttgccttct tggcatttat acattcaaag ctcagtgcta 120
gattagagct attatttgca tagtcttttg gtattgcca cttttggcat taccatatta 180

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 ttgacaatt agaaggaata ggggaaggaat attacatgac tgtaaaagag ttggttatat 240
 tttatgttga cttcaagggt tccatttgaa ctattatggg ca 282

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

<400> 217
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 cctggagagg gactgccctg cacagctgca gcagttgctg gagctgggga gaggtgtttt 180
 ggaccaacaa gtgaccactc tacggtgtcg ggccttgaac tactaccccc agaacatcac 240
 catgaagtgg ctgaaggata agcagccaat ggatgccaag gagttcgaac ctaaagacgt 300
 attgcccatt ggggatggga cctaccaggg ctggataacc ttggctgtac cccctgggga 360
 agagcagaga tatacgtgcc aggtggagca cccaggcctg gatcagcccc tcattgtgat 420
 ctgggagccc tcaccgtctg gcaccctagt cattggagtc atcagtggaa ttgctgtttt 480
 tgtcgtcatc ttgttcattg gaattttgtt cataatatta aggaagaggc aggggtcaag 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
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 tcaacaacat atttgaagca catactttgt accaggggacn tttccaggca cnggactaca 120
 gctatgaaca agacaaacag tccctagcct cccaagagcc gtcacttcag aagggcagac 180
 atgacacgca aacaaaatga tgccagggtg taccaagtgc cttggggaaa cagtgccacc 240
 tttctgagac cgtttctcca tccgtccatg gagctgataa caccagtccc tcaggggtgga 300
 ggtgaagact aagaggttgc 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
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 cagccagaca gccgcctgag gctcagccaa gcccagggga acctgtcggg tctggagacc 120
 cggcaggtag agctggagtg tgtgggttctc aaccgcacca gcataacctc ccagctcatg 180
 gtggaatggt ttgtatggaa gccaaccac cctgagcggg agactgtggc ccgcttgagc 240
 cgtgacgcca ctttccacta tggagagcag gcagccaaga acaatctgaa ggggcggctg 300
 catttgagga 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
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 gagtgggaag ctgggactct gttttacagc catctgtact ggagcctgga caaaccactg 120
 gtctntatgg gangccccag cctcacatct ccctggcaag gagagagagg ttagccatg 180
 tcctgggtct aggattacag cccagagatg ggcacttaag aagacctggt cattgggtcca 240
 gacttgggcc aaggctctcc tctgtgaggg atgggtttta ctggtgaatt acctgtgtgg 300
 agaagctatc agggccatgt ttagcacact gaagggacca gtctccacca agcactttaa 360
 catccctcca gccagcatag attgatctcg tgttacagag agggcaagggt 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 gccgttggca tttactgaac 240

cttataaaac tgtcagcaaa acagccctta ggcttggact ccctgctagc cgggttttac 300

ggtgtggaag 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

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tcaccttctc accttcttat aagaaagctc tgagaatggg cttttttgtn tttntttgtt 120

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gttgttgaga tggagtctgc caccaggct ggagtccagt ggcgtgatca tacctcactg	180
cagcttcanc ttctgggct caagtaatcc tcccaccca gcctcccagg tagctngtac	240
tatagggtgtg cnccaccacg cccagcaaat 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	
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taagaagcca taccagcatg agatctcctt gatagtgtta aatcccactg tggaaagatt	120
gaaaaatatt tcccagcctt accagagggt acgatctagt gtggaggcna aagacattga	180
gaagaaaaaa gcaggtgcct cctcctggct ctctgttag gttaacataa tcataattcc	240
cctttgaaat gtctcccaca ttgcccctt 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 tattgctgtc caccgaggag tcggtgtgag gccgcgtgcg tctctgtcgt	180
ggacacgcgt gattgaccct ttaactgtat ccttaaccac cgcataatgca tgccaggctg	240
ggcacggctc cgagggcggc cagggacaga cgcttgcgcc gagaccgcag aggggaagcgt	300
cagcgggcgc tgctgggagc agaacagtcc ctcacacctg gcccggcagg cagcttcgtg	360
ctggaggaac ttgtgtgtgt gcctgcgtcg cggcggatcc gcggggaccc tgccgagggg	420
gctgtcatgc ggtttccaag gtgcacattt tccacggaaa cagaactcga tgcactgacc	480
tgctccgccca ggaaagtga	499

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

<400> 225	
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ccaagatggc cgctgtggga gcctcacatt ctttctcggc ttttggcccc atgtcctcgg	120
cactcagggtc tgcagttcag cccaagtgtt gagactcagg tatgcagctc agggcgccct	180

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taattaaccc tcccatgggc ctgggcaccg cctgcgcctc atcaactctg ggctgctggt	240
tttgttcctg acgctgcagc ctgacactgt gggcggggggt gcagtttgcg atggaaggct	300
gcctccgaat cgaggaagcc ttgaccttgg gaggggcctg ccttttcgct gggcttgccct	360
ttctctgggc agcgttcgct cagcacttca gtgcggccga ttcccctggg actgaattca	420
caccagccac gacgacttcc cggctacttc acgttctcta tgtttgacagc tgttctttgg	480
tggcagaaaa agatgatttt tcttcccccc actcccattc ccttttgta gtttctctcc	540
ctgaaccaca ttttgagctg ag	562

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

<400> 226	
ttccagaatt tcttccgagg tagtatgggt 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	
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gtgtcggggc tggggtgtga atgccagcct gtgagtcccc gaactatgtg ggtaccccta	120
cccctcacag aagccaaggg catggaggag gtccctccac agtgacaacg gtgtggggta	180
ggggagggtgc attcaggaca ccacccaggg acagtgccta tgtgatcacc tcttaaaggc	240
taagcttagg ggcattttccc aaagtgggga cagagggcag gacgcccagg ctgggggctc	300
tcctcgcccc ccctgggtgtc tgacagcctc aaggaaggag cagtgcctgt gtcagccatg	360
gggcccttgg agctgccgct ggtgcctagg gggcctgggt ttctgcccag gcagccagtg	420
gctgttggga gcctctgttt cccctgtgct gggggccttg agtgctatgc tagcangggc	480
ctggcccca aa gtgtgagtga tgagcaataa acgtaccgtc ccc	523

<210> 228
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 228	
aagtgcgaag tcagggatgg tctaagagg ctgagaggag aattccggaa cctcaggacc	60
ttgctcactg gctgctggct ggggctgtga agctgtccag tctagaactc aaagagtgat	120
ggtacaggct ttagagcc	138

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<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 cctcttcttg ttgctgagtg gagtgcacca gcagccccac cccagagaag 60
 ccctgttgga agcgctgttg gaatccccca aggtagggga gtggacacca taaggaagg 120
 gaggagtgcc agctccatat gcggtctccc ccatcagtca ggccagcagc gggttcagct 180
 gcctctgggc agccctancc catacagaca gggagacctc cctcccgatc ttctgtgaat 240
 agtcccttat acccctgctt atgcctcagg ggctcctcca cccctttgtc 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
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 gacgtttttc ctatggactt atttcttcca tgtccaggac tttgcacaac tttggtttta 120
 aaagctgttg aaaaatagga aaacaaaggg cattgttcac agatagggcc aagtctcccc 180
 ttgcaagggt gcctctgttc tgtccctgcc cccacctcac cttctctact cctccagtaa 240
 gttggcagtt ttggtgcaa accccaaatc tccaaagaga catgccaggc aagacaaacc 300
 cccaaacacc tcctttccgg tggccttgga aacagattgc tccgagctgg agaattgtcg 360
 gtgaggtgta tgggagagga ggggagagtt agaacttgtg cctttgggag taaggggtaa 420
 ctgcctggag gg 432

<210> 231
 <211> 549
 <212> DNA
 <213> Homo sapiens

<400> 231
 atcagtgcc aaaaattcctt acctaaagtg gcatatgcga cggccatgga ctggttcata 60
 gccgtctgtt atgcctttgt attttctgca ctgattgaat ttgccactgt caactatttc 120
 accaagcgga gttgggcttg ggaaggcaag aaggtgccag aggccctgga gatgaagaag 180

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aaaacaccag cagccccagc aaagaaaacc agcactacct tcaacatcgt ggggaccacc	240
tatcccatca acctggccaa ggacactgaa ttttccacca tctccaaggc cgctgctccc	300
agtgcctcct caacccaac aatcattgct tcacccaagg ccacctacgt gcaggacagc	360
ccgactgaga ccaagacctt caacagtgtc agcaagggtt acaaaatttc ccgcatcatc	420
tttctgtgct tctttgccat 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 aagaaaccct gactttccca ctaggaagga agagactggt ccttcttgtg	120
atgtactctg aagaaaaatt ctaggatttg gacagatttc ttgggttata aaacatgatt	180
ttcttctctg tttcttgggc ttttataatg ggtactgttg ttttcttgca aagctttaat	240
gattccataa ggacttgtat aaagtttatg ggagaatttt caatgtagat gtgaatggca	300
gaaacccaag aatctgtgtg aggttgaata agatcctgtg tctccagaga ggtctgatgg	360
ggagacacag atctaaattt taaagggtgg ttgggccttc tcaatcatat attaagggtcc	420
ttttatgtta tagataagta aattaaggcc cagaaagatt aatagcccaa ggtccaaga	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 ttctgcaa	60
gtactgtttt agtttcattt aaaacccctt tttttgtgag aagatttcaa acatcaggca	120
agtttgtaat gaattcaagc tgagttctct cgaggggacaa acatgtataa ctacagttcc	180
agtgtcagtg ccagctgtca ggttttcact gtgcagctag ggctgcctgc ataccagtc	240
atgtaaacca aattcactct agaatcggcc aggtcttacc aaaatgcaaa tagaatacaa	300
agcaactgga aatatatttc gtaatttcat tttatgtgtg attttaaaag ttaagctact	360
tcaaaactca tctgtctaac ttattttcac taataagtgt aacttgcctg gaatttggca	420
gatctaagct gggcttgggc tagatgggtt caagcctgag tcattaagat gtgaaattta	480
cagaaacaac agaggattga ggaacaagtt aaaggacact ctaatgggtg agtctgcat	539

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<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
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 ccttgaccga aacctgtgag agctccggaa atagaggaac cnagcattcc ctctggaata 120
 catcagcact gttgcctttg aggctggcct gcttgaatgc acacctgagc tccggattca 180
 cagtggagga agccagatgc catgtcatga ggggtgctcaa gcaacttttt ggagatgtat 240
 gtatggagag aaactgaggc ctcttgccaa cagccagcac taacttggca agcatgtttg 300
 agagccacct gggaagtgga 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 ccaggctctt cttcacctga actgtgtcta aagcaagttc cctccacctt 120
 ctgtatttat acgcttgant ttttaaaacc taaatgttgg gcttcacatt tgttccttgt 180
 aaatttcatc ttggtgattg cagtctaccc tctggccttt aaaaattgtc tgagccttga 240
 ttcgatcatg aaaccagctt acccttcccc tgtgtgctgg cccagtttt ctaaccaggt 300
 gttgaatgaa ctggatggac tctgccagat ccctccgtgc aaggctggaa tcagtccatt 360
 gttcaactgt gccctttggg gctgtggttc atttggctct gat 403

<210> 236
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 236
 ctgctggaaa ggcacacctg ctgcagctgt gagtgtgatg ggacagcaga gtcactcctg 60
 catgggattc tagggctggg ggtcccagag ggggtggcctc cgccccctcct gggggccgag 120
 gactgtcacc atgtcactac ggcactctcc agctgctgac caaagccctc gctaaccgca 180

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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 ggcgcgggag gccccggcgc gggcgggggtc atgggctgca 120
ccgaggcccc 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 ccagtttgg 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
gggtgtctagc attgttcttc tgatgacacc tttctgcctg gttctgttgt cctacatccg 300
gatcatctcc accatcctaa agatccagtc cagagaagga agaaagaaag cttccacac 360
gtgtgcctct cacctcacgg tggttgccct gtgctacggc acaacgattt tcacttacat 420
ccagccccac tctggtcctt cagtccttca agagaagctg atctctgtct tctatgccat 480

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tgttatgcct ctgctgaacc ctgtgattta tagtctaagg aataaagagg tgaagggggc	540
ctggcataaa ctattagaga	560

<210> 240
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 240	
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tctgattacg aaggaaatct atgctcacag tgggaaaaca agaaaatgtg gcaaagcaca	120
ggtaagaaaa taaaaatcaa taatatcaac attatgaata ttttaggtac ttaggaattt	180
ggggtagaat gatggaaagc aaactgttaa ttatagctgt atatttcagt gtagaggcta	240
caggtgcctt gcatttgttt tcttataaaa tctgttccca tacattttac ttactttatt	300
tgaatttagg aaactttcat taggtagcca tttttatttt ctgtttcttt aatcatttta	360
ctttgaaata attttaaatt tacagaaaat ttgcaaaaat agtgtagaaa tttcccattt	420
gcctttatcc agcttcctgt agtgttgcca 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>

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<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
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 agtaaggtta nnggtacatt gttacatctc agataattaa aaccttgaaa aactcatgag 120
 agatcacaag tagaaccttg atctgaaaca tggcatgtgg cgatttatat tgagtattag 180
 gttaaaaatg caagaangga gcatagttaa tattttacnt taaagctaaa acnataattg 240
 cctacttaaa attttcagtt aattagggtg tcactttttg ttcttaacna agaaatcaac 300
 tagttttant ccataaacag ttagaactga tgcacacatc cgttntcct tactcatttt 360
 aaacagctat ctgaaatagg aagtgtaatn taatntttaa agaacttgaa aacatgacag 420
 aaatgtttta actataaaca tatattgtat atgttagcat attgtataca ttgnatatta 480
 acataagcta gaatcattga cata 504

<210> 242
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 242
 cgaaccactc agggtcctgt ggacgctcac ctagctgcaa tggctacaga ggctggaaga 60
 tggcagcccc cggactgggc agatcttcaa gcagacctac agcaagttcg acacaaactc 120
 acacaacgat gacgcactac tcaagaacta cgggctgctc tactgcttca ggaaggacat 180
 ggacaaggct gagacattcc tgcgcatcgt 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

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agcagatatg atgttttctg ttttacatcc aatttcaatg gccgttttta ctatctgac 180
caccaccacca aactgacctg tgatgaagcg gtgcaagctt gtctcaatga tgggtgctcag 240
attgcaaaag tgggccagat atttgctgcc tggaaaattc tcggatatga ccgctgtgat 300
gcgggctggt tggcggatgg cagcgtccgc taccatctct ctaggccaag aaggcgtgc 360
agtcctactg aggctgcagt gcgcttcgtg gggtttccag ataaaaagca taagctgtat 420
ggtgtctact gcttcag 437

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<210> 244
<211> 389
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, t or u

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<400> 244
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atttttacaa tgctatttat taacaatata tgacaagagt actagaaatg ttacttgtga 120
ctattttgtc tattctagcc aagctggatg cctggctgtt tctcagttat actaaatgag 180
ttctgctctc agggctttca tacttgccct tccctctgcc tgcaacactc ttcctccagt 240
tttttttttt tttttttggc tctctccatc acttttaggtc tccattaaaa ctgtcagcnt 300
tcagggaagt tgccttcctt gaccacaacc aactaattc aaataccaat ccttccccgc 360
ctccgtttgg taactctcta gtctcttat 389

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<210> 245
<211> 136
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (68)..(69)
<223> n is a, c, g, t or u

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

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<400> 245
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agaggccnnt tgtttgtccc gagtgtcaaa naaggcttct tccagatatt agacctacgg 120
gtgcatcaga taattc 136

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<210> 246
<211> 369
<212> DNA
<213> Homo sapiens

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<400> 246
ggccctgggc taagtcgggg atgaaggcgg gagctgctgt gctggactgc agctcagcac 60
agagacagtg agcctagatt gcagagctgc ccagggaggg atgtcacctt gggggatgga 120
ggctgcaggt gctcctcaga ccttagggaa acatttgga gggagcttgt tgaggagata 180
caggcacctc aggggtggctg ggctggatgg actttgatga cccttccttt ttgagacct 240
gatggttctc taatttgga 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 cattttattct ttcatttata gttgggaaag tttttgacgg 120
tactaacaaa gtggtcgcag gagattttgg aacggctggg ttaaatggct tcaggagact 180
tcagtttttt gtttagctac atgattgaat gcataataaa tgctttgtgc ttctgactat 240
caatacctaa agaaagtgc tcaagtgaaga 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 cccagtcacc 60
tgaggagcct gtaggggccc ctgctgtgca gtccatcctt gtggcaggcg aggaggacat 120
ccgctgggtg tgtgaggaca tggggctgaa ggaccctgag gagcttcgca actacatgga 180
gaggatccgg ggcagctcct gaccctccac agccacctgg tcagccacca gctggggcaa 240
cgaggggtgga ggtccctactg agcctctcgc ctgccccgc cactcgtctg gtgcttgttg 300
atccaagtcc cctgcctggg cccccacaag gactcccatc caggccccct ctgccctgcc 360
ccttgtcatg gaccatgggtc gtgaggaagg gctc 394

<210> 249
<211> 414
<212> DNA
<213> Homo sapiens

<400> 249
tttgctttgg gtactgtgat aactactttt tatactttat cccatttaat tataaaaacc 60

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actcttgaga agtaatTTTT attttcagaa ccattttaca gattttaaAat aaacagggttt 120
gaggaattag ttttaacttat ccaaagtttc gtggctatta agttctagta tttggagtca 180
aatgcaagtc tgtctaaatc tagagcccat gttctttaac tgcaacacta taatgtctca 240
ccccgtccta gtccaccaa ttagtcaact cttttagggc agaagtctgt ctaattcatc 300
tttgcttcct gttactttat atttaattaa aaattttagt gactttttaa cttgtaaatt 360
gtagctgatt ttacatttat cttcctgaag gaaactctgt atcattttgt cttt 414

<210> 250
<211> 268
<212> DNA
<213> Homo sapiens

<400> 250
cttttattag aatgccatgc ctgcttatgt tatgcatgta ttttataata atttaaatcta 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 gagcagggtg tcggacaagc 120
agtggcacag nnagatccat gccttcttca cgcagnccca ggtgagggtg ggcctcaggg 180
ccacggnnat cttctcccga gaccacaaac accaggatct tgttttcagn tttaaaaacc 240
aagagaatgg gccgggtgca ctggctcacg cctctaattc cagcactttg ggaggccgaa 300

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gacagcggat catctgaggt caggagttca agaccagcct ggccaacatg gagaaacccc 360
taaaaatagg aacaattagc caggcatggt gacaggtgcc tgtaatccca gctacttggg 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 ttattgcag gatggtgtct cttctttaga 240
acagggaaaa taggcaggaa gcccaattgc tggagtactt a 281

<210> 253
<211> 249
<212> DNA
<213> Homo sapiens

<400> 253
ccaaatatct agattctgat cccctttgag gtcctagacc ctttgagaaa ctgatgaagc 60
caggcacctc cttcctcagg aaaatgctgg tgtacaaata cacacaaagc tcttcaggca 120
gctgatagat ttccccaga gagctattca aggacttcct aagggtgggtg gactgcaggg 180
ttaggacacc tgctatagag gtgacatttt tccaaggaca agcaggggact ttggtcttga 240
ctgttctct 249

<210> 254
<211> 259
<212> DNA
<213> Homo sapiens

<400> 254
agaagagcct gaacctcaac atcttcctga agcaatttaa gtgctccaac gaggaggctc 60
ctgctatgat ccgggctgga gataccacca agtttgatgt ggaggttctc aaacaactcc 120
ttaagctcct tcccgagaag cagcagattg aaaacctgcg ggcattcaca gaggagcgag 180
ccaagctggc cagcgcggac cacttctacc tcctcctgct ggccattccc tgctaccagc 240
tgcgaatcga gtgcatgct 259

<210> 255
<211> 535
<212> DNA
<213> Homo sapiens

<400> 255
aaattctgca atgaacccta caccgaccgg acagaagaaa gggaagaatc caaagaggaa 60
gaagactggt ccctccgacc tgtcctttcg ggagctgaga aagatgacga agctgagcgt 120

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ctcagagaaa 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 gtcctgcaca gcctgagaag gagggtatgt tgatgaatgt 480
aactggtatg aataccctcc aatttgttta ggaattgctc cttgatgttt accat 535

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<210> 256
<211> 230
<212> DNA
<213> Homo sapiens

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<400> 256
ggaagtaatg acttttttgc ccatttactc actgagtccc ataatgtggt aaatgtataa 60
tgctgacatt tgttccgtcc ttatagattg aggatagtag gccctgaat tttgccttta 120
ctttagaaac ctgattcaac ttaaccgaac tctcaggaat ctgattccta agctgagtat 180
cacattttag attacttact aatttgtgca tctatccacc tagcaaatat 230

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<210> 257
<211> 532
<212> DNA
<213> Homo sapiens

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

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

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<400> 257
taaaaccaac cagctgaacc tttcaggcta caagagaacc cgggtcggta atgtcttttt 60
aagaataatt ttttaattgct tataacaagc atatttngtg gcatttgaac tatatttact 120
gctccaatat ccgttatttt ccaaaggatt tngtatcttt ttgaaaatgt ttacatcatc 180
agatgatcca cagaattcac tttatgtgag atctcccag agtttccatc ccaacataat 240
ggactttggt ttgaacacaa ttcgtttttt catttgaatt ggcatttccc aatatttgct 300
aaacatttgc tggagaaatc atttttcttt tttctttttt agaaaactca gaatgaaaat 360
tcattcccct gaaatatatta ggtgtctata ttctatattt tgatctatta agggattagt 420
atttttccat gtttattgtg ttatcagagt gcattagaaa gattagtgat tcatcttcac 480
agcacatttt taatcaagca gttatttcaa ccagcacatt cgttttgttc at 532

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<210> 258
<211> 489

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<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

<400> 258
atcacccctt gttcattatg tcaggcctca tgggagcctg gccttctcca gaagctggcc 60
ccggcgtcct cccaagctgg accacgtagg cccagatca cacctggggg tccagatgta 120
gggggtccgt gtgcacgccc aatcagaccg agcacttggt acactacccc aacacctctc 180
ccagggtcga atgaggaacg cgccactgga cacatgagga agaggctgcc ctgggagcta 240
ctgatgtgtg gacctcacct ctctggcttt gggcggcagg tccctgcacc taggatgcct 300
gcctggaaat gtccttgcat tcgtggcctc cttcacagcc tcctcctcag agaagcctct 360
gcnagtgcac agggagtgtg tgcagccttg tgaagggtg ggaccacttg cccagactgg 420
ggccccctcag gcacaggcgt ngggctctac tgacctgtct cccagctcc cacacagaaa 480
gcatctaaa 489

<210> 259
<211> 468
<212> DNA
<213> Homo sapiens

<400> 259
cagaaggaaa cgggtgtctt cggtgtggc tctgagtga aattgcatgg gcggaaaggc 60
gggggtggct gctcttcctg gcaggcctgg gccatcagcg aactgggccc cgtgaggagg 120
gcgggagtgt ggaggagggt gggcctctca cccaggcttt ctggggccc ctctcagct 180
tgcagagctg gccagcccc tccttagggg gtgggagagg agcctctggg cagaccaag 240
aaccatgggg actgggggtg gttggtggca ccaatggcag ccctccccgc ccctctcctt 300
caaggagggt tcccgcagct ggggggtgtg cggaggcgca tggcctccc ccacggggcc 360
gtgctgtgtt tatggctggc agaggcagcc agcgggtggg ggattctgct gctcgctcac 420
ctgcctggct cgctggtctc tcgaattttc ttccctctga aatcctat 468

<210> 260
<211> 531
<212> DNA
<213> Homo sapiens

<400> 260
ctgcaccaac tcatgctgga ctgttggcag aaggaccgca accaccggcc caagttcggc 60
caaattgtca acacgctaga caagatgatc cgcaatccca acagcctcaa agccatggcg 120
cccctctcct ctggcatcaa cctgccgctg ctggaccgca cgatccccga ctacaccagc 180

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tttaacacgg tggacgagtg gctgaaggcc atcaagatgg ggcagtacaa ggagagcttc	240
gccaatgccg gcttcacctc ctttgacgtc gtgtctcaga tgatgatgga ggacattctc	300
cgggttgggg tcactttggc tggccaccag aaaaaaatcc tgaacagtat ccagggtgatg	360
cgggcgagcaga tgaaccagat tcagtctgtg gaggtttgac attcacctgc ctcgggtcac	420
ctcttcctcc aagccccgcc ccctctgccc cacgtgccgg ccctcctggt 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	
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tggcccgaag ccattgccat cactgcaga cgcctggaga gggacaggcc gcttccgagt	120
gcagtcttg cgcagcaccg actccacgc acccggggaa ggacaccctc actccacac	180
cccgggaaga acactagaac atcagcagan gggccctgcc cctccgcctg cagccgtgaa	240
aggaagctgg gtcattcagcc cagccccgcc caccacagcc cctatgtgtg tttccctcaa	300
taaggagatg ccttgttctt ttcacatgc naataacatg cccagcaaaa acttgcttta	360
tgggtctgcc tggagaaaa	379

<210> 262
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 262	
aaccacacca gaagacatcc tcaggaacaa aggctgctcc agctctacca gtgtcctcct	60
cacccttgac aacaacgtgg tgaatggttc cagccctgcc atccgcacta actacattgg	120
ccacaagaca aaggacttgc aagccatctg cggcatctcc tgtgatgagc tgtccagcat	180
ggtcctggaa ctcagggggc tgcgcaccat tgtgaccacg ctgcaggaca gcatccgcaa	240
agtgactgaa gagaacaaag agttggccaa tgagctgagg cggcctccc tatgctatca	300
caacggagtt cagtacagaa ataacgagga atggactgtt gatagctgca ctgagtgtca	360
ctgtcagaac tcagttacca tctgcaaaaa ggtgtcctgc cccatcatgc cctgctccaa	420
tgccacagtt cctgatggag aatgctgtcc tcgctgttgg cccagcgact ctgcggacga	480

tggctg

486

<210> 263
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 263
 tctccgtgga ggctatggct tcagacaggc cccgaaggctc tggtaccaat gtgctcgggtt 60
 gtgggtcaca taacgctctc tggagggcctt gcctttcagc ttgggatcat gaaaagatga 120
 tttgacgctg tttctcatgg tctccgacct aataaagcaa gataagagaa aacaaatgtt 180
 attttaaaaa aatcacccctt tggcaaaaaga 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 ggccttggag tttgctaaat ccaaatatga aaatcaaaag 60
 ctttagtatt cctcatcttc tcttctggaa gatttgcgtt agagtttttg ttgggccttc 120
 aaaaagctgt gttcagagtt aggagaatat atccaataaa agatggtttc gtctaccaat 180
 tggggaagtt tcaccctctc cctatctgaa gaaaaaaatc aaaaacaaat gtccccggat 240
 ctttcgatgc aagtcctgga ggcagggaga tcaactgcctg 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 ggctgggcga cagtgcgaa agcaaagcaa agcagggctg 60
 tggagacact cctcgcattt gtctcttccc tccaaggatt atctgagcaa gtcgacttgt 120
 tcattcaaag gcggggtctg ccaagccctg ctctatccaa tggggatagc ttctacgtaa 180
 cggaattccaa tt 192

<210> 266
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 266

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agagcaacag ctctatatct ggatcactgc agtgcctaga agatacaaca gcacaattta      60
caaatccaaa tttccaggaa gtctctgcac atacctctag tacaaaagat gtttcagaga      120
ctagagggtc agaaggcaaa gagaggcaat attcaactcc cagttcaggt caaaagggaa      180
gaaagcctgg tgttgaaaga aa                                              202

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<210> 267
<211> 278
<212> DNA
<213> Homo sapiens

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<400> 267
gaaccacgtt ctttgtatgg gccaatgag ctgtcaagct gccctgtgtt catttcattt      60
ggaattgccc cctctggttc ctctgtatac tactgcttca tctctaaaga cagctcatcc      120
tcctccttca cccctgaatt tccagagcac ttcattctgct ctttcattcac aagtccagtt      180
ttctgccact agtctgaatt tcatgagaag atgccgattt ggttcctgtg ggtcctcagc      240
actattcagt acagtgcttg atgcacagca ggcactca                            278

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<210> 268
<211> 392
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (302)..(302)
<223> n is a, c, g, t or u

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<400> 268
ctcctggcct gatactctag ggatgcaggt gggagaagca ggggtcctgg gggctgcctg      60
gagctctggg aggcattctg aacgggggtct actactgac tcagggtgagc tctgccctcc      120
tctgaaagtc acttttctca tcagttaaatt gggggcaagg gtccgtgggtc cgaccaaggt      180
cttggttcca cagacatcac caggagcctg catgcccctg atcactcctt ctccttcctc      240
caggaaactc cagcctggcc tctgacccca gttcaatccg accatgcca agcccaagcg      300
gncctttcct ccagaactgc tccggggcct ggctgtgtga ctggagcaag gtgctaaacc      360
tctctgtgcc tcgctgggtct aatctgtaaa at                                392

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<210> 269
<211> 417
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (240)..(240)
<223> n is a, c, g, t or u

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```

<400> 269
taatctcatc caaaaccatg ctacacagaca caccagcat aatgtttgac caagtatctg      60
ggcaccttgt gggtcagtc aattaacaca tattaactac cttagcaaga tgaaaagcag      120

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tgaatgcagg atggtggttg aaattttaaa tacgttggtt atatagtctc attgaaaaag	180
gaacatttga gtgaagactt gaaggggttg tggaataaac catttatttg cttattgccn	240
gtctccctct atcagaatga aagcttcattg aagcgagaga cttattttt atctgttata	300
tccctagtgc ctggtgcagg gtaagtactc aaaaatattt gttgagtga taagtaatga	360
ttgaggatgg ggactgggtt gtatctgggt 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 tgtgttttagt gtgctaaact	120
ttctcctttg ttctcaggcc ttccaggtag tccccttcct ggacttaaga gtgcaaactc	180
ttctctgtgg ttctagcctt gggcagaatt atatccaga gaccacagag caactgtcaa	240
gctgcttacc ccctcaccca gggctacagc ctgtgcccag ccctctaatt tgtgcctctc	300
ttgtgttggg ggtgggtggg gttattcctt tccccttcct gctctggcct ccttgaaaagt	360
tcagagtacc cagtacaagt cagccacat gctgacgggt atttttcctc 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 ccaaccaca tgtgtcctgc ctctcctggc	240
cctaccacat tctggtgctg tcctcactcn cccctggccc agaggctcct gaagatgctg	300
ggcggtcctg gcacagggag gagcagctct gtaaatctgt gcacatngcc actcttggcc	360
taataaagga gg	372

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<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 ggggtattctc agttaggacc cggagacagg 180
acactcttcc tgaagcgggg cgcagatcag aggcagaaga ggaggaggcc aggaccatca 240
gagtgcacc tgtcaggggc cgagagaggc tcaatgagga ggagcctcca ggtgggcaag 300
acccttggaa attgctgaag gagcaagagg agcgggaagaa gtgtgtcatc tgccaggacc 360
agagcaagac agtgttgctc 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 gtgtttatatt tgagctctgc 180
atcttaacaa gatgatctga acacctctcc tttgtatcaa taaatagccc tgttattctg 240
aagtgcagagg accaagtata gtaaaatgct gacatctaaa actaaataaa tagaaaacac 300
caggccagaa ctatagtcac actcacacaa agggagaaaat 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
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cccattggtta tagggggaga gatcatagga atgctatgga aagaggcctg aagtcagagc 120
cagctagtgg ttattattta ttaattgcct gtgaggtgcc aggcgcacat attagaccat 180
atgtgattgc agtgagccac ccggatcccc ttcaagctgc tgctgcagct gatggaagtc 240
ctattggcag acagccttct ctcatcagcc cttcaggac ttgcctcagt tgcagagagc 300
tgccttcccc aagatcacac cttccctgg ggactcacia ccaatggctg atccagaaga 360

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atccataaag cccgtatcat ttcagcccaa tttaggacag ctttggtgag ccattagacc 420
tacatgcag 429

<210> 275
<211> 434
<212> DNA
<213> Homo sapiens

<220>
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<222> (376)..(390)
<223> n is a, c, g, t or u

<400> 275
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gggtggatggt gagctgggtg ccctgcggct cgaggatgtg gaggatgagt tgataagggg 180
agaggctcatc ctgtcgccag tcccatcagt gctcaagttg cagacagcat caaaaccaat 240
tgacctctca gtagcaaagg aaataaagac ctttctgttt 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 ccactgactt ttaccctctt caggaagagg ccaaggagga ggaacgcctc 60
atagctttga agaaaatcct cagctcgggg gtgttctatt tctcatggcc aaacgatggg 120
tctcgctttg acctgactgt ccgcacgcag aagcaggggg atgacagctc tgaatggggg 180
aactccttc 189

<210> 277
<211> 542
<212> DNA
<213> Homo sapiens

<400> 277
gaggagcagg caaggctacg tgggcagctg aaggagcaaa gcgtgcgctg ccggcgcctc 60
gctcacctgc tggcctcggc ccagaaggag cctgaggcag cagccccagc cccagggacc 120
gggggtgatt ctgtgtgtgg ggagacccac 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

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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
gcggtaccgg accatcacia cagcctatta ccgtggggcc atgggcttca ttctgatgta	120
tgacatcacc aatgaagagt ctttcaatgc tgtccaagac tgggctactc agatcaagac	180
ctactcctgg gacaatgcac aagttattct ggtgggggaa aagtgtgaca tggaggaaga	240
gagggttggt cccactgaga agggccagct ccttgcagag cagcttgggt ttgatttctt	300
tgaagccagt gcaaaggaga acatcagtgt aaggcaggcc tttgagcgcc tgggtggatgc	360
catttgtgac aagatgtctg attcgctgga cacagacccg tcgatgctgg gctcctccaa	420
gaacacgcgt ctctcgaca cccaccgct gctgcagcag aactgctcat gctag	475

<210> 279
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
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 <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 ttttttagat ctaccctctt gttgcccagg gggagtccag tggcgtgatc ttggctcact	60
gcaaccgccg cctcccgggt tcaagcaatt ctctgcctc agtctcccga gtgtcttctg	120
tcttttgtaa aagtttttca tgcccaagtg agattaattg tttaaaaaaa aaaaaacaag	180
aagaaaacaa catagattta ccgcaagacc tattgatata ttatnnnnca nggtggtata	240
cccaggggtg gtgtgacaca gaccaaaga ggctgtgtgt tctgttgttg ataa	294

<210> 280
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
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 <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

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atgaggatna agaagnnagg aagagnagga agagattgaa gaacccgttc cagctggaga	180
tgtggagaga ggctccagga gctccttgcg gggcgctat ggggagggtca tgcctgtgta	240
ccggcgggac agccaccgag acgtgcaggc tggcagccat gactaccctg gtgagggcat	300
ctacctgctc aagttcgaca 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 gttagaggag	120
tggaccgcac tccctacctg ggggatgtcg ctgttgtcgt gcaccctggg aaaaaagaga	180
tgggaacccc actcgcagac actcctaccc ggcccgtcac ccggcatggg ggcatgaggg	240
accttcacga atccagcttc agcctctctg gctctcagat cgatgaccat gttccaaagc	300
gagcttcagc tcggatcctc gctcctcccg gaggcaggtc gagtggcatt tggtaaaggc	360
attgccaagc ccccgagtg 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

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ctgattctac ttctgcaggg ttccacagaa gtctccagtc ttcaaattctt cagtgtatga	60
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tgctcctgaa aaacaagcta actggagttt ccatcacctg ccaccagcta tacacactac	180
caactaccca actgaactcc atgactgatt tgccagctaa tcatgcccct gacccagccc	240
acatggacat ggggaaggaca 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 cgcggtcca	60
gatcttggtt cctctaata tggctgccct cagctgttcc aggagcggtc agtcatagt	120
gagaactcct caggctctac cagcgttct gagctcctca aacccatgaa gaagaggaag	180
cgcaggaat accagagccc atcagaggag gaggcggag	219

<210> 284
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 284	
ttgcctgag gttgactata catacaaata ttgagcattt cctcctggtc tccgtgataa	60
acaagggtt tgatattgtt cggcgagatg gaaagaaaat atcaaggagt gagctgaagc	120
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	
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atacacccca ccaggagtac tgatcctgcc tcccttcatg tctaggggaa gcattcgcct	120
ttgagcactt gtttgcaa atctggggagt tgagacctc tagcatctt tcccttcttt	180
ccctgcagtc tattcactcc cgcagccnaa aaatctctgg cgttcagggt agcagtttct	240
gggttggtt	249

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<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

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 aatttttaag aaatcagata agtgaagtga aagagagaga tcaaagtgtt gtggcagcac 120
 aaaggagaga ctgactannn tnntgctggg gaatctgaaa gagtgctttg gtggaggtaa 180
 catgagatca gggccttgaa gggtagtca agtctgtcaa ggagacaaga gggagagaag 240
 agcttgccag agggccagag accagcgagg aggctgtggt gtcctggaat gagggcgaga 300
 tacttggtgg gactggtcaa cacggcaatg aagagggata tggccgagga aaatggagag 360
 gggcactgga nctgtgccag caaggactgg gatgcgtgga cttgatcctg tagataacgg 420
 gaggaagaaa ggcctggatg cagcgccatg tcatgagcac atctgatcat gacagctcac 480
 ctatgggagg atttccctc 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

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<400> 287
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tgccaaagga ggagatcacc ttttctgna agttcgcagg aggagnnctc cggactcagg 120
acttgtccta tttccgagat atgccgcggg ccgaaggata cctggcgcgg atccggccgg 180
ctcagctcac gcaccgcggg acgtttctct gcgtgatcaa gcaagaccag cgccccctgg 240
cccggctcta cttctttctt aacgtgacgg gnnngcccc gcgggcggag acagagttgc 300
aggcctcgtt ccgggaagtg ctgcgctggg cgccgcggga tgccgagctg atcgagccct 360
ggaggccag cctgggcgag ctgctggcca ggcccaggc tctgacgccc agcaatctgt 420
tcctgcttgc agtcctcggg gccctcgcag cagcagtgac gacagtgttg gcgtggatgt 480
tctttcgatg gtactgcagt ggcaactaac aaaggatatct ttctctcttc cctatcctat 540
ttccatcctg aaaat 555

<210> 288
<211> 381
<212> DNA
<213> Homo sapiens

<400> 288
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ccaaagattt cataagaaga cttctgggtca aggatccaaa gaagagaatg acaattcaag 120
atagtttgca gcatccctgg atcaagccta aagatacaca acaggcactt agtagaaaag 180
catcagcagt aaacatggag aaattcaaga agtttgcagc ccggaaaaaa tggaaacaat 240
ccgttcgctt gatatcactg tgccaaagat tatccagggtc attcctgtcc agaagtaaca 300
tgagtgttgc cagaagcgat gatactctgg atgaggaaga ctcttttgtg atgaaagcca 360
tcatccatgc catcaacgat g 381

<210> 289
<211> 488
<212> DNA
<213> Homo sapiens

<400> 289
cacgctcctg gaacgtcaga tcattattga ggcaaagtat cgccatctag aatcagcagg 60
acagactgag atcttccgaa agcacccccg caaagcctcc atcctcaaca tgccactagt 120
gacaacactt ttctactcct gcttctatca ctacacagag gctgagggga cattcagcag 180
tcccgtcaac ctgaagaaga catttaagat ccagataaaa cagtatgtgc tgacagccct 240
ggctgctcgt gccaaagctt gagcctggaa tgatgtagat gccctattca ccacaaagaa 300
ctggctgggc tataccaaga agagagcacc cattggcttc catcgggttg tcgaaatctt 360
gcacaagaac aatgccctg tgcatatatt acaggagtat gtcaatctgg tggaagatgt 420
ggacacgaag ttgaacttag ccactaagtt caagtgccat gatgtcgtca ttgataccta 480
ccgggacc 488

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<210> 290
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 290
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 agactgcttt gagaagtttc tagcactgaa agttggaatt gacactccag ccaatgatcc 180
 ttccttcttt cataatcaat gcaataagat tgcagacaga aattccagtg atttctactg 240
 cacagctctg gacatctctt ttcctagtat tattccctga attggccact gatttcaatt 300
 ctgcag 306

<210> 291
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 291
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 agcggcagca ggcctgatgg atgagggatc gtggcttccc ggcccagaga catgaggtgt 120
 ccaggggccag gccccccacc ctcagttggg gctgttccgg gggtgactgt gagcgatccc 180
 accccaaacc tgagatgggg tagcccgctc tgtgtcctcc acagggacaa gcagtgggag 240
 gagtctgaat ggtcaccagg aagcccgggc tccatcttga cctccttttt cagggacagg 300
 agcaacaggc ccctcttccc tgactctaag cccttccctg taagggtga 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
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 ttcattcctgg ctgcagcacc aaaaggacaa aggcccgctt ttgaagtgcc tgataaggca 120
 ttcctttcac ccctccatga ggaagggtggc aaatcttgag actccctatt agagagcttc 180
 gattttcctg aaattgtggt aggaaaatag ggtgacttgg tttgatcttg gtttctatac 240
 ctattatggc tgcctgactc tggtcatttg gcccctgcag gcctaagcca cttggttttg 300
 cttcacatat tgggggtttat tagaacagta cgtagggaag canatgccag aggcacccgt 360

nccttttccc tgccttctag gtgctcctgg gaaat 342-51 PCT ST25 395

<210> 293
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 293
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 aaggctccacc tgatgtataa gttcagggtg gactttactg aggctttgta cccggctttc 180
 tgggtatttt ctgctggtgc cacactctcc atctgctccc ccaagtaggc aggctgtagg 240
 cacttgggct gactgcctgc agaagtccca agaccctagt gaaaatacag caggcagaac 300
 tctccttgga taattcccc aagaggtccc caaggattgg gagcatggga ggggagctgg 360
 cgggaggggtg ggaggtggga tttagccagg aaaggggtga gagtgattgt gttgtgggcg 420
 aggaggcggt tccaccccct ggtgcctatc agggcagggt gacctactcc ccattgttct 480
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 tgagtggccg attcctc 557

<210> 294
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 294
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 agcaggggag gagctgctga agatgagtga ggaggacgag cagggtggt gccaggcca 120
 gttgcagagt ggccgcattg gcctgtaccc tgccaaactac gtggagtgtg tgggcgcctg 180
 agtgtcctga cagcccttct gcaacgttta cccaccctgg ttcagagccc agcttctcct 240
 ggagagccgg accctcaggg ccctgaaccg tcgctctctg gctgctcctc tgtcccttga 300
 gggaggaagt cctgggaccc agggagggga ggggcctttg tctaggggag ggactggtag 360
 ggaagggacg agtctaggct gagggcaaga tgggaggtca gaggtgacag aagcgttcag 420
 ggggtgcctgg gcctccccag gagctgtgga ctcagttcct gacctctgct ttgggggttc 480
 tggggtgggc ttggggtgag tgtagttctg gcctagcagc accctcttgt ggcttgttct 540
 agcgtgt 547

<210> 295
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 295
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 actcatccat ttaataagta ttccagcaga tacagatgtg aacagtcaag tctctgcat 120
 ccacaatgct tgtgttctaa tgcaaga 147

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<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
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 ggttatTTTT ccagattgat aaccatagaa agtgaataaa cacttttaag gtcgcaaaca 120
 tttgctaggt tgtccttctc aatgcatgtg caggctgcat cctgtccttg tttttaagcc 180
 agggtttata aataagtaga tttataccaa tcttaataga attgtatatt ttatgcaaga 240
 attaaatgct ttacaacatg aagtataact caaccattg taaactttgg tggcaatatg 300
 gatttgaaac tcgacagttc tcttgtatatt 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
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 tcctgaaggc agagtccgag tgccacctca gcgaggagga caccctgccg ctgaccact 120
 ttgaagacag ccccgtttac ctcttgga caaggaccgtg cagcagcctc ccctatgccg 180
 aaggctttgc ttactaagtt tctgagtggc ggagtggcca aaccctagag ctagcagttc 240
 ccattcaggc aaacaagggc agtggttttg tttgtgtttt tggttgttcc taaagcttgc 300
 cctttgagta ttatctggag aacccaagct 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>
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 <222> (36)..(36)
 <223> n is a, c, g, t or u

<220>
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 <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
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 atctctggga caccctcgtc cccaggagaa ggatgtttgg gaagagatgg atgccaacaa 120
 aaacaagata aagcttggaa tttgtaaggc tgctactgaa gaggagaaca gccatggcca 180
 ggcaaatggt cttctcaatg ctccaagcct tgggtcacca attcgtgtcc gctcagagat 240
 tactcagcca gacagagata ttccactggt gcgaaagtta cgttccattc acagctttga 300
 gctggaaaaa cntctgaccc tggagccaaa gccagacact gacaagttcc ttgagacctg 360
 gtataaaata gtgtattttt ctttttaag 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)
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<222> (390)..(390)

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

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<222> (393)..(393)

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

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<222> (395)..(398)

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

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<222> (400)..(400)

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

<220>

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<222> (403)..(403)

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

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tcccagagtt tccttttagcc aggaaacctg ctctactgac cccgtgactt ggacagtcag 120

acatcaccct gagagtgaca agtgtaaaan tgactccctt cctnccccgn ccnncggaag 180

tatantnaga tacttgaaag cagtcnntn ctaaaatggn cttacctatg tggcctgaac 240

gattaaaga aagaactcag agttacaagg gaaaaagaaa aagagttaca agggaattgt 300

agtctttttc tgaatagaat attagtactg tgggtattgca tttcatggga atggaaatgt 360

attggtaaag ctacctgatg gaagctttcn ctngnnnnn aaanatggagg gtgtattatg 420

tgcagttatt 430

<210> 301

<211> 536

<212> DNA

<213> Homo sapiens

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

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

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

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

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

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

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

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

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

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

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<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

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<400> 301
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 aactgtanna anannnnann nngtgtttca ttctaaattn gcagctgaaa taaatttatt 120
 ngcgatagna gaantatctt attattcatc ctcagaaata aaggattnga agggatagag 180
 attatatgat aaatttatag aagactttca gaattntgaa tgcatttngt ttagtggttat 240
 gaaatgacaa tagnaaaaaa gtctcgactt caattnaaaa gttacacaaa caaacaaatc 300
 tacaggcatg tctttatata ccatcagggtc 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
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 aatggaaact tggactgaaa tttgatggga agaattgagga cctggttgat aaaattaaag 120
 agtcccttac tctgctgagg aagaagggtt ggaacctgta gtgtcctgtc tgataaggggt 180
 gaagctctcg ttcttgcttg cccagaaga ccagttttta gtcttctctc agtggatttt 240
 caaatgctct tggctgattt ttaggcaaaa tggtttttaa tgaattcaaa ctcttccac 300
 gagggcttta gtaaaatggg aagtaccaac attatatatt cttagagcag atgccatgta 360
 ctagggtatc a 371

<210> 303
 <211> 355
 <212> DNA
 <213> Homo sapiens

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

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

<400> 303
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 aatggttcct gctgcttccg cggtgcccag gcttttctca cggcctctgc tgggttctcc 120
 cctgggtgct gtggatgcat cctgcctgct ggaaattctg tgctctctgt ttccatccct 180
 ttgtcgtggt aatgaccgta tacctctccc ctgtaccctc cntgcntgc tctccgtgca 240
 ggcccctctc cctctggttg tcccatcagc atttccccac agctcgttgt tcctccttcc 300

342-51 PCT ST25
tcttttctgg tgacctttct actgattgca ttgtacctct ttccctgata ttaaa 355

<210> 304
<211> 362
<212> DNA
<213> Homo sapiens

<400> 304
gcctgtgtct tcgggctgaa tttgatctgg ccatcccagg gggcttcctc cctgagtgcc 60
cttgtgcccc tgaacatgtt cactgaactg ctgatcgagt actatgaaaa gatcttcagc 120
accccgaggg cacctgggga gcacggcctg gcaccatggg aacaggggag cagggcagcc 180
cctttgcagg aggctgtgcc acggacacaa gccacggggc tcaccaagcc taccctacct 240
ccgagtcctc 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
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taaatttcat gggaaaaccc ttgtacctga catgtgagcc actcagaact caccaaaatg 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 tgccctgtgtg tttgcagaga agatgggttc 480
tataaagagt aggaaagctg aaattatagt agagtctcct ttaaatgcac att 533

<210> 306
<211> 434
<212> DNA
<213> Homo sapiens

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

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<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
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 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 ctaaatggg 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 gggaaccctg agacctctcc agcgaagctg aagtgaatta 120
 attaagtgtc ttaaacgggc ttggtgctgt gttacgg 157

<210> 308
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n is a, c, g, t or u

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

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

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

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

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

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 <222> (84)..(86)
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 <223> n is a, c, g, t or u

<220>
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 <222> (93)..(93)
 <223> n is a, c, g, t or u

<220>
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 <222> (289)..(289)
 <223> n is a, c, g, t or u

<400> 308	
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cnnttcnntg ncntntgcna antnnngann nanaaccgtg taaaaccatt tttatgtggc	120
ttcaacgtca actataaatt agcttggtta tcttctagga gaaatgctat ttattttgga	180
gtagtagtaa aaagggctca aaggataagg aggccattca ggcctattct gaatccctga	240
tgacatcagc tccaagggc 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
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 gcgtgaagaa gtgtccccgt aattatgttg tgacagatca cggctcgtgc gtccgagcct 120
 gtggggccga cagctatgag atggaggaag acggcgtccg caagtgtgaa aagtgcgaag 180
 ggccttgccg caaagtgtgt aacggaatag gtattggtga atttaaagac tcaactctcca 240
 taaatgctac gaatattaaa cacttcaaaa actgcacctc catcagtggc gatctccaca 300
 tcctgccggt ggcatttagg ggtgactcct tcacacatac tccccctctg gatccacagg 360
 aactggatat tctgaaaacc gtaaaggaaa tcacagggtt gagctgaatt atcacatgaa 420
 tataaatggg aaatcagtgt tttagagaga gaacttttcg acatatttcc tgttcccttg 480
 gaat 484

<210> 310
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 310
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 gccaaagtgg aggagcttcc cactccagga ctgttgatga aaggacaga ttgaggagga 120
 agtgggctct gaggctgcag ggctggaagt ccttgcccac ttcccactct cctgccccaa 180
 tctatctagt acttcccagg caaataggcc cctttgaggc tcctgagtgc cctcagatgg 240
 tcaaaaccca gttttccctc tgggagccta aaccaggctg catcggaggc caggacccgg 300
 atcattcact gtgataccct gccctccaga ggggtgcgctc agagacacgg gcaagcatgc 360
 ctcttccctt ccctggagag aaagtgtgtg atttctctcc cacctccttc cccccaccag 420
 acctttgctg ggcctaaagg tcttggccat ggggacgcc tcagtctagg gatctggcca 480
 cagactccct cctgtgaacc aacacagaca cccaagcaga gcaatc 526

<210> 311
 <211> 319
 <212> DNA
 <213> Homo sapiens

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

<400> 311
 taaattgcct ggatctctgg gacacccccg tccccaggag aaggatgttt gggaagagat 60

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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 tggataaa	319

<210> 312
 <211> 234
 <212> DNA
 <213> Homo sapiens

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

<220>
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 <222> (94)..(95)
 <223> n is a, c, g, t or u

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

<220>
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 <222> (186)..(186)
 <223> n is a, c, g, t or u

<400> 312	
gcgcttgcg agtagctgaa cgcgggcggt tctttcctcc ctttttttcg aattggtttt	60
gggggtagat tcgagttaca aaatnnncnn cngnngngtg ttcggcgcgg ttcccccagc	120
tgtctctggc tgaaccggcg ctctcgccct cctgccgaac acagcgtgag gagccccccc	180
aggganatgg tgtttgagtc tctgggcttg ccgagcacta agtcctctga gttc	234

<210> 313
 <211> 125
 <212> DNA
 <213> Homo sapiens

<400> 313	
gtactgcaaa aatcaccctc ggcaagacga atgtctgacg tgccggaagg agtcatacgg	60
gtccatgctc cacttctctc caagggtgtc atggccattc aactcaacaa tcaaaccaaa	120
gccaa	125

<210> 314
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
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 <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>
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 <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
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 tctcttatga agttttcctg gccaaagagcc agnagttgga agtttggatc attctttttt 120
 cttttttaan catttcttct cttctttctc ttttttatca ctaaataaat gacatgtgga 180
 gaaactattc agctttttaa gtatnctcca nttacttgtc tcaactacca ctattttattg 240
 tgtttatcaa aatcataaaa agtcattttt tggcattttac cttcgtgggt gagactgctg 300
 tctgtatgtc tgggaatgga agtcctcttc agggattcag caagggtgtg acttttgctt 360
 aatactagtgt gttccttatt ctaagtgatg acatcatcca cttttcctag 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>

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<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
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 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 ttttttctt 360
 tgtctatata tggcncctgg cgttaccact tattnttaat aatcnccata tttgtttgat 420
 gtcttccatc attttagatt gtaattctgt gaggcaaagc atcatgtctg tgt 473

<210> 316
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>
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 <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
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 tgnccatggg ctgtaagttg tacttcttcc agtcgtgccc tccggagaac gtggctcctc 120
 caccctaaat cacatctctg ccctcaaaca tcgcgtgtgc ccctaccttg ccgcagctcc 180
 tggccccctc ctaggaaggc ccgggtccca caggcaacac ctaagtggac caaccctct 240
 gcctgtcctg cccccagac gatgactgaa ggctcctttg acaccttgag atgattctgc 300

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tactttccag acttttctta caaagcaaac acttttattt tctatgcaaa nntgattcag	360
agaatttata taaaggcggg cgaggggag ccgancaggg agctttggga cagggctggg	420
gccccatat ccccccggg ccacctgctt tccctcctat ggctcccctg gaacaggagg	480
gagagccaag ggggcnegcc agcctggaca gcgcccgtc ctgcctgggt gcacacacgg	540
cgggcctgag ctccagcatc tgagtttggg 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 ggcctcggcc	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 agtgttgcag ttcaaagtag gctcttctgg ttgaaatgat atattttataa	60
gaccagaata tcacaaatgg gtgatgtata atgtctcttt agtttttngg tattnngcct	120
cttttaaagc ctgtcggatg tatgggagaa aacaatgaac gtgctttgat ttcctatcag	180
tcactcttaa gaacatacat atngtttaag taactcggtc ttttttatct gattcttgag	240
ncactatggg tagcaagtaa ccacttaca atttaaagt aatatacact ccttttctgt	300
gtgtcaagtc cttattttta ggtgcatatt gacatttaaa tggttaattat tgtttggcat	360

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ataaatatcaa aaatctatta tttattttat gctgttacag ttaaaagatg tgatttatga 420
catactgaat caacttgcct tccaatttag tgtgtaatat ggtaagcatt tatactttta 480
gatatgtcctt 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>
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<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 agtccttagca cagagaaaat 60
 tattaatggt aaaaaaggaa aagctggaaa aagttcaaaa taaagcagca tcacttattc 120
 agggatattg gagaanatat nccactngac aaagatttnc ngaaatngaa anattattca 180
 ntcattcngc naatntagga taagaatgat aattgctgtn acatcttata aacgatattc 240
 ttgggctaca gttacaattn cagaggcatt ggcgtgctta tttaagaaga aaacaagatc 300
 aacaaagata tgaaatgcta aaatcatcaa ctcttataat ccaatctatg ttcagaaaat 360
 ggaagcaacg taaaatgcaa tcacaagtaa aagctacagt aatattgcaa agagctttta 420
 gagaatggca tttaagaaaa caagctaaag aagaaaattc 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 aaaatagtg cattcccctt aatgaaatag attttgagtc 60
 tttttttcat tgtaaccccc aaatgagaat catctacctg attcttgtag caaaaaaaaa 120
 tttttttcag tctttttttt ttttnagaga gggctctctg tcaacgcaag actgggagtg 180
 gcagtggcac gatcttagct cactacaact tctggcctcc caggctcaag caattctcct 240
 gcctcagcct cctgagtagc tggggattac aggcattgcac caccacgccc agctaatttt 300
 ggtattttta gtagagacag ggtttcacca ttgtttggcc aggctgggtc cgaactcctg 360
 acctcagggtg atccacccac ctcggcctcc caaagtgtg ggattatagg tgcgagccat 420
 tgcgcccagc ctcatgtatt ttatttaaca gtgtaagtac ttagaaagta agaaaatggc 480
 gtgattagtt ttttg 495

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<210> 321
<211> 429
<212> DNA
<213> Homo sapiens

<400> 321
ggctgaggag gctggtctga acatcactca catttgccctc 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 cagagaaaag ggtccatgac aatgagcatc cagtggaaaa cacgccagct 420
tcaaagcaa 429

<210> 322
<211> 467
<212> DNA
<213> Homo sapiens

<400> 322
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cttgtgcttg gggagtcttg cacagaggtc aatgcagtcc tctttggaag tgagcttacc 120
aacccttgc tacagatgcg ctggtttctc cgggaaacag ggcactatca cagtttact 180
ggagatgtag tggacttcct ctttgtggct ctgttcacag gagtgaggat tgggtgtggga 240
gcttgccctc ttttctgtga aatggctctc cccacgccta agtggtttgt gaaggctggg 300
ggagtagcga tgtatgctgt gtcttggtgt 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 gtaaattggag gcttcaaata gaaatacatt 180
tcagttacag aaaaaaaaaat tatctttgtt acacatttga gtttgcaggc ctaaggttac 240
tcccgtaca ctatcatctg taaccataac gcactcaaca ttttaagcta actataagga 300
ttgttgcttc actcaaagat cctgaggttt tattcactaa catttttatt tggtgactat 360
agttgacaag aacaaagctg tggggaacca acaaacactg caatgcctgg cattgtcacc 420
tcactagatt gtgagttcct ctgggacagg gtccgtacat tttcttagaa tccctcatt 480

agccattagc ctgcacagtg cttg 342-51 PCT ST25 504

<210> 324
<211> 163
<212> DNA
<213> Homo sapiens

<400> 324
catggaggag tgcatttcct tggctattcc agaagtccta cctcccttct gagattttat 60
aatggatttt cttatggtta tcccaaatat acttggcaag tcgtcttata aaccaccaat 120
aatagcctct taaaaattca aaaattactc ctcttggcta aca 163

<210> 325
<211> 441
<212> DNA
<213> Homo sapiens

<400> 325
cctccgcgga aggcgtggca gggaggcagt cgccctgcgg tgcaagctgc tgctccagag 60
cataccgtgg ccaggtgggt atccccaagg cctcgtgccg tggctgggggt cctgggagggt 120
ggtcgccctg cagtgcagc tgctgctcca gagcgtaccg tggcccagac tgatcctcga 180
ggcctcctgc cgtggctggg gtcattggctg gctgcgcatg tccagaagca tttccttcct 240
gcgaccatcc cggcgcccct agggggagaa gccaggacag cagcttccgc tgtctccaca 300
gcagacacgg gacggattcc acagacggga gcctcattcg taccatgcc aacgcattca 360
ctcggggcag tattaaccgt tctagaaagc cactgtttta tagcaaaaca ggaaaggaaa 420
agctaccagt tttttattca g 441

<210> 326
<211> 457
<212> DNA
<213> Homo sapiens

<400> 326
tttcccctag ttgacctgac tataagagaa ttatatattt ctaactatat aaccctagga 60
atttagacaa cctgaaattt attcacatat atcaaagtga gaaaatgcct caattcacat 120
agatttcctt tcttttagtat aattgacctt ctttggtagt ggaatagtga atacttacta 180
taatttgact tgaatatgta gctcatcctt tacaccaact cctaatttta aataatttct 240
actctgtctt aaatgagaag tacttgggtt ttttttctt aaatatgtat atgacattta 300
aatgtaactt attatttttt ttgagaccga gtcttgctct gttaccagg ctggagtgc 360
gtgggtgatc ttggctcact gcaagctctg ccctccccgg gttcgacca 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
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 tcaangtgac agccctcag gaatttgaag gcaatngtca caccctcacc cnccttcctg 120
 agttttttct ggtttattaa cgtcagtcct tacagtcagt gctcattgac ggtgggtttc 180
 tctggttggt tctgaacac gtagtgctct taaagcantg ccctgaggng aatacaattc 240
 tccaggggca ttctgattgg caggtgaagc 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
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 gtctgttttt atctcccctc tcaggaccag tcagccactg gtcaatcagg ctgatcatgg 120
 aacattagga attctccaat taaggggagaa aaagtccagg gacttagtta tatcttcaga 180
 ccagtgcagc tgggacacac aaagttctcc tgtctcacca tctgatatgg tttggatgct 240
 cgtcccctcc aaatctcatg ttgaaatgta attcccagtg ttggaagtgg agcctgggtg 300
 gaagtatttg gatcatgaga gaggatcctt catgaatggc tcagcaccat ctccttgggtg 360
 atgagtgagt tctcactcaa ttcacataga tatggttggt taaaagagtc tgagacctct 420

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cccctctttc tgcctatgtg atatgcctgc tcccccttca ccttccgcct ttactgtaag 480
cttcctgagg ccctcaccag aagctgagca aatgttggtg ccatgccagt acagc 535

<210> 329
<211> 432
<212> DNA
<213> Homo sapiens

<400> 329
gccacagact gaactcgcag ggagtgcagc aggaaggaac aaagacaggc aaacggcaac 60
gtagcctggg ctactgtgc tggggcatgg cgggatcctc cacagagagg aggggaccaa 120
ttctggacag acagatgttg ggaggataca gaggagatgc cacttctcac tcaccactac 180
cagccagcct ccagaaggcc ccagagagac cctgcaagac cacggaggga gccgacactt 240
gaatgtagta ataggcaggg ggccctgccca ccccatccag ccagacccca gctgaaccat 300
gcgtcagggg cctagaggtg gagttcttag ctatccttgg ctttctgtgc cagcctggct 360
ctgccccctc cccatgggct gtgtcctaag gcccatttga gaagctgagg ctagtccaa 420
aaacctctcc tg 432

<210> 330
<211> 234
<212> DNA
<213> Homo sapiens

<400> 330
agcaaata gctttcagta ttctaattt 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 aaatggtatg gctgaagttc atttgtttac agggtcggga atgtcttcag 120
ttcttgagag tcaacagtaa tgattggttg taagccaagg gacattttaaa gctagtgaag 180
agttttttct ggaattgatt tttcccaaaa gaatatatta attgaggtta agaagtcagt 240
gggaaacaca cagaaatttg ttttaaaatc tttcaggagc tttactgaaa gacttggtta 300
tcaagtcttt tggggag 317

<210> 332
<211> 415
<212> DNA
<213> Homo sapiens

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<400> 332
 gacttacttt aacaaccagc caatccctac ctaagcctag tagccatggg ttggctaaga 60
 ccgcagcgac tgtatttagt aaatcctttg aacaagtcag tgggtgtcaca gtcccacata 120
 acccgatcatc tgctgttggg tgtggggctg ggacagatgc caatagggtt tccgcttgta 180
 gtctccaaga agaaaagctt atttacgttt cagaaagaac tgaacttcca atgaagcatc 240
 aatcagggtca gcagagacct cctagtatta gcattactct gtccacagat taattagtaa 300
 catatTTTTT tcccataacc tagtgaacct ggaaatacaa ctttgcttct ttatgaaagt 360
 accctgggtc tttcatccgt attcctgaca ggagccctga tgtcttaaat tctga 415

<210> 333
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 333
 gacgggtcca ttaacaaagc gggctttgcc gtcaactttt tcaaagaggt ggacgagtgc 60
 tctcgcccca accgcggggg ctgtgagcag cgggtgcctca acaccctggg cagctacaag 120
 tgcagctgtg accccgggta cgagctggcc ccagacaagc gccgctgtga ggctgcttgt 180
 ggcggattcc tcaccaagct caacggctcc atcaccagcc cgggctggcc caaggagtac 240
 ccccccaaca agaactgcat ctggcagctg gtggcccca cccagtaccg catctccctg 300
 cagtttgact tctttgagac agagggcaat gatgtgtgca agtacgactt cgtggaggtg 360
 cgcagtggac tcacagctga ctccaagctg catggcaagt tctgtggttc tgagaagccc 420
 gaggtcatca cctcccagta caacaacatg cgctggaggt 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
 cccttgacac gtctgaatca tcccgacact tctcagactt tgacttgaat gcacactgtg 180
 ctgtacaaca aggacctga cttggactgc actgtttccc aggtttcagt ttgcatttt 239

<210> 335
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 335
 gccctgactg actgtattct ctggccacat tcaagtcccc cattgggtggg ggacagagaag 60
 taggaccagg ccatccttgg ctacagagct cgaagacccc aagacagccc tctgctctca 120
 gcggcgccac agagagcctg ggctcagcct tctgcatcag gacatggcct cgtccactga 180

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gggcacgatt taaacatttg acatcagaag ctttatttgt aaacctcaca cagataagga	240
ccaagggctg gcggtgtggc cagaggacag gggaagctga agggcccgtg cttgagctcg	300
gcagtcctgc tccttgcaagt gaagccacca tgggtgaccg tccagcctca cccggtggcc	360
tgcacagtga gggaagggct tcagggccat ctgctcccag ggcaggggac agggcaccaa	420
ggacctttgg 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 cgttggaaaag	300
gatgtacaac agaaggctat gtatgtatat acagtatgtc aaaagccttt tttttttata	360
cttcaaattgc tctaaattaa	380

<210> 337
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 337	
gagtctctgc ttgataagtg cctctataacc aaccgctctc ctcatcctga catcttgata	60
cggacttctg gagaagtgcg gctgagtgac ttcttgctat ggagacctc tcactcctgc	120
ctggtgttcc aaccggttct gtggccagag tatacathtt ggaacctctt cgaggccatc	180
ctgcagttcc agatgaacca tagcgtgctt cagaaggccc gagacatgta tgcagaggag	240
cggaagaggc agcagctgga gagggaccag gctacagtga cagagcagct gctgcgagag	300
gggctccaag ccagtgggga cgcccagctc cgaaggacac gcttgacaaa actctcggcc	360
agacgggaag agcgagtcca aggcttcctg caggccttgg aactcaagcg agctgactgg	420
ctggcccgtc tgggcaactgc atcagcctga atgaggctgg ccacctgcca ctttgccttg	480
ccctctgcct ccagggtctc actccccttc cttttcttgg tgaaaggcac ctcctttcct	540
gata	544

<210> 338
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 338	
tcaaagaacg cgtactgcag accccaaatg accttctggc tgctggcttt gaggagcaca	60
agttcagaaa cttcttcaat gctttttaca gtgtggtgga actggtagag aaggacggct	120

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cagtgtccag cctgctgaag gtgttcaacg accagagtgc ctcggaccac atcgtgcagt	180
tcctgcgctt 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
cttccgttta cctgctctat aaaacatccc actacaacat cttttatgca 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 ctgtt	75

<210> 340
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 340	
gatgctcacg tcacttggtg taggtttcag gatcgcctct 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 cgaggtgggg gtatcgattg agcctcggag	360
gtcgagatca gcctgg	376

<210> 341
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 341	
ccccgcctgt ggcattttct atgggctcag gttacacctt cccagctggt gtttctgtcc	60
caggaacctt tcttcagcct acagctcact ctccagcagg aaaccaggtg caagctggga	120
aacagtccca cattccttac agccagcaac ggccctctgg accagggcca atgaaccagg	180
gacctcaaca atcacagcca cttcccagc aacccttac atctttacca gctcagccaa	240
cagcacagtc tacaagccag ctgcaggttc aagctctaac tcagcaacaa caatccccta	300
caaaagctgt gccggctttg gggaaaagcc cgcctacca ctctggattc cagcagtatc	360
aacaggcaga tgcctccaaa cagctgtgga atccccctca ggttcaaggc ccattagggg	420

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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
caccgagac tgacacactg aactccactt cctcctctta aatttatttc tacttaatag 60
ccactcgtct cttnttttcc ccatttcatt gctccaagaa tttttttctt cttactcgcc 120
aaagtcaggg ttccctctgc ccgtcccgtt ttaatatattc 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 tattttacag gggttagaat 60
agactattaa gngacaactg agaaaggaca gagaagtgac agccagaggt tgagaggggc 120
cataaaaaca tacaatcaga catatatctg ctaccacttt gtagcaagat ggttcctatc 180
ataactctgg gtcaaaaaga tagtaatttg gtttataatg ttgaaagaaa gcagaaagnn 240
nnagatgggg tctcactgtc gttctggagt gtagtgggtc aatcatctct cactgcagcc 300

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ttgaaccctt aggcctcaaag gatcctccca cctcagcctc ctgaatagct gggactagag	360
gcatgagcca ctatgtcttg ctgattaaaa attgtttttt 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
acattttatat atatatgtat atgtatatat atatagtaac tactttttat actccatata	120
taacttgata tagaaagctg tttattttatt cactgtaagt ttattttttc tacacagtaa	180
aaacttgtag tatgttaata acttgtccta tgtcaatttg tatatcatga aacactttctc	240
atcatattgt atgtaagtaa ttgcatttct gctcttccaa agctcctgcg tctgttttta	300
aagagcatgg aaaaatactg cctagaaaat gcaaaatgaa ataagagaga gtagtttttc	360
agctagtttg aaggaggacg gtttaacttgt 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

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tctgtaaaag tcagatagta aatatttttag gttttgcagt gtcttttgca actactcaac	180
tttctactg tagcacaaga gtagctgtgg tactgtgcaa ataaattgct tgtgttccaa	240
taaagcttca tttaaaaaa catgccatgg gccatatthg gcctgtacac tgttgthtg	300
caagtcctaa tatagttgct tagcaagtat tgnagctat ttgaggaaga catgaaagtt	360
cattgggttg ctaaaaagta tgtagaaatt caaaggaaaa ttaaaattta ggctaagtta	420
taatacactg tttta	435

<210> 346
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<213> Homo sapiens

<220>

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<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

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gtaaggatat tttctcttac cccttggtat ccaggctctg agtctcttct ctttgggagt 180

atccatcaaa atgacttttt ttaaaaacag attttcccc aaccagnaga atctgcacaa 240

acttggcagc gtttttactt gtttaatgag ttttaagacat tacatggtga aagagaagca 300

ttttggactc ctgcattttt atttaccatt cccagactga cga 343

<210> 347

<211> 534

<212> DNA

<213> Homo sapiens

<220>

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<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

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ttttccacac catnctttgt caactctcat agaaagtgtt cttgtatcg agctcaaact 120

tgcttctctg aaattcttct tcttcttccc tccctgttgg taccagctct gctgtcagag 180

acttcacagt ctgtgctccc tctgccctgt gacgtcttca gactatttga gaacaggaat 240

catgactcct gggacttgcc ttttctctag gtcaaatacc tctataattc catctgctgt 300

tcttcatagg gtcttctccc tctctgccc ttttctcca atccatcttt taactgctct 360

tgagcagtct aactgagaag tatgattcaa agcaaaataa atcttaaggt ggcagactc 420

tgaaaaaatt gagaaaattg aactcagaga tcccgatccc aaccctttc tcctgggagt 480

gaaaccttag tttctaccag agagtgtggg aaaccacttc tgggtggaagc ccct 534

<210> 348

<211> 580

<212> DNA

<213> Homo sapiens

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<220>
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 <222> (109)..(109)
 <223> n is a, c, g, t or u

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

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 ttctgccagt ggaggtttat gcctgaaagg tcatggggtc ctgtctgtaa atagacctaa 180
 agagaagtgc agtattttatt ctttgtaggc ataatgtgtt tgtcactgac aagcattcat 240
 nttcatccca ctagtctttt attgcagtct tttattgtca ttttcagcct tatgttggag 300
 agctttgctt tctcatcatg ttcacattgt ctttaagttt gtgagcttct gagaaagagc 360
 ttggtaaagg tttaaagggg actttgttcc accagggagc attttatttg ggcgtctcac 420
 ctttttctaa 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
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 cgggccttga actactaccc ccagaacatc accatgaagt ggctgaagga taagcagcca 180
 atggatgccg aggagttcga acctaaagac gtattgcccc atgggggatgg gacctaccag 240
 ggctggataa ccttggctgt accccctggg gaagagcaga gatatacgtg ccagggtggag 300
 caccagggcc tggatcagcc cctcattgtg atctggggta tgtgactgat gagagccagg 360
 agctgagaaa atctattggg ggttgagagg agtgcctgag gagagccctc accgtctggc 420
 accctagtca ttggagtcac cagtggaatt gctgtttttg tcgtcatctt gttcattgga 480
 attttgttca taatattaag gaagaggcag ggttcaagag gagccatggg gcactacgtc 540
 t 541

<210> 350
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 350
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tcaagcgatc	ctcctgcctc	agccttccaa	aaccaggtgt	ttaacttggg	actaacatga	120
agcacttaga	agactacgtg	gaacatagca	atgactatat	atgtactaca	acgtaaacag	180
cacctcctgg	attgaataga	acataactga	catgaccagc	agagacaggc	taaagacact	240
gagctgaaaa	ccctggactc	tattgctaaa	ttgaggctcc	tgaatccggt	cgctctgagc	300
aactgttgct	gtggtgctgc	cttcacaagc	actctgctga	gcactcagat	agaggggctg	360
tgctatccgt	caacagacaa	gctgcagcca	gaactgctca	gctgacaaac	tggtta	415

<210> 351
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 351		
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atcatgccaa	aaaactagga	tttttaggtg gtctttccat cccttcagat ttaagtattc 180
aaagaaagag	agacagacct	acattccaag ggtcttctga gtgcaaggcc ttgtgtgttt 240
tgttttattta	ggggagggcc	tggtgctctt ctctgtttta tgctttacct tcttttattt 300
ctcagatctc	atgttagcac	tatgttctga attccctaataat aatggctctt gagaactgat 360
ttacattttg	ttgggtttgtt	tacttcttga gcacataaaa ggaccccaaa ttagagatac 420
tatcccttgg	gcttctga	438

<210> 352
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 352		
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gctttaggag	gtctgaggct	actcttctcc aataaccttc cttccactg gaccttctca 120
ctcacagcac	tgctgccctc	tggacaagcc acagtggaca aatatgtcaa gctgaagatg 180
cacaaataat	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		
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atctgcagtc	catttggact	caataaaaaac tttgaaagtc acatgtgtta tggaattcct 120
tctcagtgac	acattcatct	gtgctcagtt gtcccagcaa gggtcagccc ctcatanccc 180

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tcgagcatcc gctgctatga agcagagctg taaacgccct ccctgtgtat aggaaaagct	240
acatggagca aatcctcctg cctgaagaag tgcattctcag catcacttca gctgtcgggg	300
catttgtggg gagaaccaga ccacctctgc ggaaggcagc agaccctctt ccagccatgg	360
atggagttga attctctata aacggttcac cagcaaacca ccaatacatt ccatt	415

<210> 354
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 354	
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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 ggtcaggggt cagcaaacta ctgcctgtgg gccaaatttg cccaccacct	60
gtatctgtaa ataaggtttc attggaacac agctgtggcc atatgtttgt atattgtgtg	120
tggctgcttt tgcattagga tgacagaggt gaatagtgtc aacagagact ggctggctctg	180
caaagcctaa aatatgtcct gtgtggccct ttacagaaaa agttttctaa cccctgctct	240
aggttacgga gaaaaaaaaa tggaataatg ttctctgcta cttttaacct gattttcttt	300
gtacctaaat aggcagctag aatgctgcct atattttaat aaggatttgg atctcacaag	360
acaccttagg cctacacaag ttgttcagat tctttgcccc agttctaata tagtgacaaa	420
ggcatagaat tctcctccca caggaatgta tttctat	457

<210> 356
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 356	
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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 atgggtgctgg	300
gaatcatcca aggttttaaa gaccattgct accatcccat gtgctctcag gtgcattcgc	360
cagtaggcca aca	373

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<210> 357
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 357
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 aggctagaga tcctgatgat tggctctgct 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
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 aattgaacat ttccaaatta taaactatgt taatacctat aaaatatata gccaggaacc 120
 atttatcatc 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 ttctaagtct 360
 gaagtgaactt ttgccagtgc catgtccagg gggggaggta taagttactt gctcttanca 420
 tttgggctgg attttttggg ttgggggaca cctttgggag tattcccaaa gcatgtctca 480
 agngngngcn cccgagagca tggtttaaaa gcttggaccc ct 522

<210> 359
 <211> 369
 <212> DNA
 <213> Homo sapiens

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

<400> 359
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 gccattctt cactctgttt gaagaaaata gtcagtgttc ttagtagtgg gtttctattt 120
 ngttggatga cttggagatt tatctctgtt tccttttaca attgttgaaa tgttcctttt 180
 aatggatggt tgaattaact tcagcatcca agtttatgaa tcgtagttaa cgtatatattgc 240
 tgттаатата 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
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 aagaagactc tgtttttacga aggggattca ctacaggac ttagagaaca gtctcttttc 120
 tgccttttaa atgagagttc ctccatttac caaaatttga cacgcacaca ttcttcaggg 180
 gcatgccaat tgcgtaaagt gaggctcgcc tgcatagcta atcctgttaa agacaacttc 240
 tcaaagcaca acgtgcttgt ttcttatcgg 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 aggcattggtg tagattacta cttctgtatt 60
 gtcccaggag ctccagcat tccttgccag agatgataag gagctcaatc ttgaatactt 120
 gttcaagctt ttgaataaaa aaccacagtt cctcaaagaa gaagaagaat tgcgaaatca 180
 ccggaaataa ccgaaaactt cccctgttt gactttcaac attcttgaat gcaccaagat 240
 agcctctttc tgtgagatta ataatgaat 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

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gccagagaat gtcttcagg agttctgcta cagagaagag agtaaccccc atccatcatg      180
gccaaagcac ccagtcagg tccgctctgg atccagcccc acaaatgcaa cccttgaata      240
gggtttgtgc aagcaaactg gatgacgacc gaagaaaccc tgtcgcttct gagaagacac     300
ccaatccaag aat                                                         313

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<210> 363

<211> 318

<212> DNA

<213> Homo sapiens

<400> 363

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cctggacca actttgttac tgtgagaaag ggtcttcatt cattcaagat ggcatttggt      60
aagcacctac tgctggagtg cagtggttca atcacggatc actgcagcct ccacctccca    120
gttcaagaaa ttctcatgtc tcagcctcct gagcagctag gattacagac aaaccttggga    180
aatcaagaaa gttctggaat gatgaagctg ttcatgccaa gaccgaaagt gctggcccag     240
tatgagtcca ttcagttcat gccgtgacaa ttttcttggga actccttttt attgttagtt    300
ctcacttggt tccatatt                                                         318

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<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
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 tnggaatata aagttctata cagttaatat gangntctct ttagcattta aaacatgatt 180
 tgcattttca tgaggcattt tggctaattt tattgatttc cttatatattc atagtcctta 240
 nccttatgag aatcttatgt ttctgtgtgt tttctatcat gtagcacaat ttctgacaca 300
 caaaacatac aataaacttg tggttaatttt tctatcaaag tcagaattta ttcataagga 360
 atctgaagta aggtgtacta agcttgttta tgggttaagt gatatagcca aattcaaaac 420
 tttacttttt atgtcagtct agaaatatct cagattaaaa catatcactt cttagttcca 480
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<210> 365
 <211> 525
 <212> DNA
 <213> Homo sapiens

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

<220>
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 <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
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 atatacaaaa acattttntc aactgntaaa gntgccttag taatataggg taataccagc 120
 aacattatgg atatataatt atagtctatt gggccacact taagtttgga gtctaataaa 180
 gtcacaatca aattctgcaa tttcaattga agataacctt gtctttatat tatnaattag 240

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aagctaaagt tgatttttct aagagttctt tattttaaag aagtactctg ggactgacct 300
 tttcggaat ggaatcttca ttggtcaggt gattcaacat tttatacaa tttatccatc 360
 ctcatctctt caggatttgc ataccttgcc agtttctact ggccattgtt gaaaatacat 420
 ttatttggag aagtccaaag ccaaggggct catggggctg tgaggtcctt cttgctgcat 480
 cgtcctgtgg tagaaggtgg aggagtcaag agagtgcctc agagt 525

<210> 366
 <211> 267
 <212> DNA
 <213> Homo sapiens

<400> 366
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 cagcgcacac ccagccaaac cctcagccca aggacaggaa tgaggagatg ctggtgaact 120
 agccatccat cagtacctgc cttccccga ggctgcagcc cactcccag gcgcctggcc 180
 aggggagttt tctaggttct gagagccacg ttgtcatccc tgggctttga agttaaacat 240
 cacacagctg tctataaaca agatttt 267

<210> 367
 <211> 199
 <212> DNA
 <213> Homo sapiens

<220>
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 <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
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 tccaantgg tgttgcaaaa gcaacatatt aattccatgc catgatnctg ggtcaagatn 120
 tgcacaatct gattgggcat gtcacctcgg atggcaaggg agtggaagtg gtcaaaatca 180
 tggagtcca gctttcga 199

<210> 368
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 368
 gccccatgtt gcataggtgg cctataacca gtcagacaca ggagacaaca tgaagcccca 60

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tctgtgcttc cctttctgac attaccacat ttgcctgatg gagtggccag ctccctttca	120
ctgctggaat gaatacaatc cagaaaacct accttctatt gctttaccta atgggggtaag	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

<400> 369	
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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	
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cacacttctc caaagttggt atggcctgtc tccttggcat gttcccttgc ttctgcttgt	120
ccagttaatc ctttctgaca taccatgcat cttaggggtga agcggttgac atcagtaaac	180
tgctctcttc ttctagcttc atctgcta at tccagtgcgt gtacaaga	228

<210> 371
 <211> 206
 <212> DNA
 <213> Homo sapiens

<400> 371	
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actaatgacg caagagacaa ttctaaggac tttcaaaaca gcaaagtagg agcagctgct	120
acctctaggg atgaggggatg caattgtcca attattggtg aaattgtcat ttcattgctat	180
tggctatttg aaattcctcc tctaata	206

<210> 372
 <211> 463
 <212> DNA
 <213> Homo sapiens

<220>
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<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
 ccctgcctgt actaatgatc caaaaattag ccaggtgtgg tgggtgcgtgt ctgtagtgcc 60
 agctactcgg gaggctgagg caggagaatc tcangaaccc gggaggcgga gggtgcagtg 120
 ngccgagggtt gcactactgc agtccagcct ggctctgtct tgggtgttcag ccatgttccc 180
 atgtctactc ccaaggtgac tctgggaagg tctcagcctt tttgtcttcc cagttaggat 240
 ggtcccatgc ccctgttacc atcagacttg gtaagtttcc cgaggagact ctgcaagagg 300
 cactgttctg gatgggtggag gagagactag ttgttctgct ctcttgcca cagtgggtgc 360
 agtggacccc atcatggaga anttcaacac atccagccta cgaccagcac ctgtgggagg 420
 tggatattca aggcagcaga gcctacagcc ggggcatgga gaa 463

<210> 373
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
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 <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
 aggggtctcaa atgaactctg agttaccatc tttggacnga cttttaatat aaagctgtaa 60
 tccttaaadc tgtgtcagta gtcccannta ctatgtcact ttaattggat gaatgcgtta 120
 atgaaaagtt tgttttcaaa cctcactaaa ctgctactta agatcacagt taatgtgagt 180

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cctgcttaat ttggaaagca tttaaaaaat ggaaaagttt cttaggggaag naaaaaatttt 240
gcaactctgc ctacaaggta cagtaattgg ctaggttctt ttgaagagca gtgttgacta 300
gagttaagga aaagtcagtt gtgaaaaatg gacattttta atagcaaaat 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 ccttcctga gattgctacc tggaagctct ttctat 46

<210> 375
<211> 519
<212> DNA
<213> Homo sapiens

<400> 375
gaataagtac acagagtccc caaagactag tgaggccaag atgtgtgagt cattttccat 60
cacacacaaa aaacccaatt gttctaagta tgtattttac caagcagctt tatagaaaga 120
aaaacaaaca aacaaaccaa acaacaaca caacaaaaaa ccttggccag gcacagtggc 180
ttacacctgt aatcccagca ttttgggaga ttcaggcggg tggatccttt gagcttggga 240
gtttgagatc agcctgggta atgtggcgaa acctcatctc taccaaaaat ataaaaacta 300
gccaggtgtg gtggtgcacg cctgtagtcc cagctgctta ggaaactgag gtgggaagat 360
tgcctgagcc caagaggtag aggtttcagt gagccgtggg aagattgcct gagcccaaga 420
ggtagagggt tcagtgagcc gtgggaagat tgcctgagcc caagaggtag aggtttcagt 480
gagccaagat tgtatcactg cacaactggt 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 gcgcttcac 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

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gaaaaaaact tcaacacaaa gggttgtagc actgtcctca gtaccattgt gtgcatgagg	120
atcagaatag tctgggctag atacatcaca ttaaagcttt tcagaatctg ataaatagct	180
ctaaatacta atgatattga gaagcctagc ttcacttggg aaaatctgtg gctgttcaca	240
gaaattcagc accaagttat tccccccata ctctaccagg ccttcaggtc ctcataaaga	300
aaagtgtcgt tttcagatta ggaactcaaa attatTTTTgT tgcataaat 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 ggactggggc gccatccgtc tgaggagcag tgaggTcttC aagtggctca	180
tccctgacag cgccgacacc acggtgggca actcagactg cgcctacgac cgcattgtgg	240
cctgtggcgC ccgcctgCgc cggagcctga agccccagtc ggccaccgtg cacgacttcc	300
aggaggaatt cggcctggac cagactcagg ctcttgccat cagcgaccac tttccagtgg	360
aggTgaccct caagttccac 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 aagtgccctt ggaaggcaaa	120
taaagaaggc accatttaca ttacagtctc ctaagtgcag gcaatgatac cccaaggTgg	180
ggctctgcag accctccagc aaagagcttt tgaaaataaa tgtgaagctg ggcttaggag	240
ctcatgcctg caat	254

<210> 380
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

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<222> (140)..(140)
 <223> n i s a, c, g, t o r u

<220>
 <221> misc_feature
 <222> (295)..(295)
 <223> n i s a, c, g, t o r u

<400> 380
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 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 gagggcgcgagg gagctaccag cttggagggg 60
 aggacagatg gggacccagg gctggccagg gctgggtctct ggagctgttc tgccagagtg 120
 atgggggcgc ttggcgaggc caaggatttg gttgggtcct atctctgaga cattttgaag 180
 tctcacaccc cttccatttg ttgcctattc cacttaactt tgtatttggt tgaaatctac 240
 tgttcggatg ctggactaga agagggacac 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
 gtcctgtctg tttagtatgc tggagtggag gttctgtgac ttctgttta gtggtgctga 60
 ttctagttag tgtgaaacgt cagatttcat ccagtcgcg tggctgattt ttttatgtgt 120
 ggttctctgt gtttcagcc tggctcctgct ggctcaggatc ctctgtggat cccggaagat 180
 gccgctgacc aggctgtacg tgaccatcct gctcacagtg ctggtcttcc tcctctgcgg 240
 cctgcccttc ggcattctgg gggccctaatt ttacaggatg cacctgaatt tggaagtctt 300

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atattgtcat gtttatctgg tttgcatgtc cctgtcctct ctaaacagta gtgccaaccc 360
catcatttac ttcttcgtgg gtccttttag gcagcgtcaa aataggcaga acctgaagct 420
ggttctccag agggctctgc aggacaagcc tgaggtggat aaaggtgaag 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 annctgagt ctgcttgtct gtttgcccca tgacagccca ggggtggtgg 120
cctcactcca cctccaggca cccacaagaa tataaaatct tgtacaagga tgtcgatatt 180
actattgcca ttccaagtg cacctgcacc tgtagtatca ggtggtttnc agccttggct 240
gcatagctgc atatgagaat cacctgggaa gcttttaaag atcccagtat ccccacctct 300
tccccagtta cagtggagtc ttgcgggtgg tgggggacat cattatTTTT gaagcttcca 360
agtaattctg gtgtgcagtg gggtgaccag 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 actggggagc ctgccaccac tgtatgcctt 60
tgaggccctt gccctgcctc cctggctggc cacggagctc gccctccctg gtaggggggtg 120

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agtttggaag tgagaggctg gtgtgggtct gtcccatgag ctgactcaca cttgcctcac	180
cacacataacc atcagaagac ccacgtggtg gagctaccgc tgctgctccc cacagtgcac	240
ctaggcaccc tcctgtcctt cccatggcac tcggttgacc tgggggttcc tgtccaacag	300
gtgaggcctg gtgtgcacag acactctgcc attgctagaa gngggctgtg cccctgcta	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 gaggggaaggc gccgggggag caggagtcgg	60
ggggaagtga aatctcggca ttagaacccc cg	92

<210> 387
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 387	
aaggcgccgt caagtcaaataaataaatgc cttacaacac caaccagga ctgagatctg	60
catgctggaa tgacggtggt ggtggtggct ttcagtattc cccagggttt gtccggagca	120
ccggcacgcc ctctcttgaa gtccgctctc cgcacagtgg ttagacggga agatccggag	180
ctgtccagtg tcttgggtaa tgcacggcat cgcctgatgt ctgacgctag aacaccacgt	240
aaagtcaagc agaggggaagt gaatgcgccc tagggccctg caggccacca agaagagcta	300
gagggagttg gtgcaatcct agagatgccg gcagggtgcac caatctgtgg cacacgtacg	360
ctctccaatg gaagacaact caagaccaca ccaa	394

<210> 388
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 388	
actataatgc acttcgcaaa atgtaagggg ccggcttcac gccagcgggg ctttctggga	60
ctttgaattc aaccagggtga gcgctccagg tgccccgaca ggcgcactgt agccactggg	120
tgtagggggc gggagtctgg aaggtgacgg tagacggcca cttggggcct tctgggggag	180
agcctactgg tggggtcagg gctctccgtg ctgagagcaa ggtagaggag caaggcccta	240
cttttggggg gcagggtcca gaccaaggac cctatgcgcg gaggggtggc	289

<210> 389
 <211> 139
 <212> DNA

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<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 ttcctctggg taagatcgag 60
cagtcgcagt tcctccctgg agaagaccac agccacatcc ttgaatgtca cagcctccta 120
caatatcaaa cacatgtaac ctcaatctta caaccaacct tcactagaag aagggtggca 180
tcaagaagga aaagagcacc acaaaaaagt tggtatagat tccaagagat ctgagtcaat 240
tttcagctgt tacagttttc cctgtctcac tatctctac gctcatcccc ataaagcctg 300
tagtttatca ctgttttttg tttttttctt ttttgagatg gagtctcact ctgtcaccca 360
ctgcactcca gcctgggtga caggggtgag aactgtctt aaaataaata aatttttaga 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 gaacccccact ggcttagagg gctgggggag agaaacatgc 60
tgccctcttt gtagcagtca ggcgtgacc caagagaact caccttattc ttcatttcgc 120
ctggtaatcc tccaggccct tctctacacc ctgaagggga gggaggaaaa tggatgaatg 180
agagagggag ggaacagtgc ccaagcgctt ggcctctcct tctcttcctt cactttgcag 240
aggctggaag acggcagccg ccggactggg cagatcctca agcagaccta cagcaagttt 300
gacacaaact 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

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gattgaagcg tactctgtgc ctactagatc ttttcacagc caaaaacacc tggcaaccct	180
tggagaagta actattcctt tttttcacia gtaagaaaat agagcctcag aaaatttaac	240
agttgtctaa gctagaaagt agcaggactg gactttgaag tagtcttttag gttgtgctgt	300
acattttgtg gatatgctta aatcacagtt tagcttgtac 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	
agctcatttt agtctcattt ctctcncctc cttcttccct gatgaataaa gtttattggg	60
atggntttca gatgctcagc ttttccatat gattaggtna gtgatccaga acccttccaa	120
agnaccctgt ggactcaacc ctctgtttga acaacataca agataatatg agacatttat	180
ttatcgagga ccctctgagc acctggcact gtgccagatt ctttcagata tataaaattt	240
cacttgctcc tgttgattct ggaaaggagc aacggcatct tatgaagctg tagcagatac	300
tgtcctggcc tcgctcatgt gtgtcagatg tgttgagatg ccctggctgc tgctctgcat	360
gtgtagctga ggtcct	376

<210> 394
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 394	
tggattcatg ccaaaggaaa ctgaaagcct gcctttcttt ttttcccagt gcacatctca	60
gattattttgg cctttgtccg aggactgaaa acagtctgt gtccaagtat gtttttaata	120
cctgatattt atttcacaaa aaaactgaaa ttgctttgtg tgtccaggct tgaatgttta	180
aggcatactt gattaatata tgtgtgctga gtgcttcctg	220

<210> 395
 <211> 553
 <212> DNA
 <213> Homo sapiens

<400> 395
 caaccgccac atagtcacat tgtcaaatacg cgtattcacc ttctcttata agaaggctca 60
 gcgagatctg gcgtataagc cactctacag ctgggaggaa gccaagcaga aaacgggtgga 120
 gtgggttggt tcccttgtgg accggcacia ggagaccctg aagtccaaga ctcaagtatt 180
 taaggatgac agagatgtgc atgtgggtat tgtaggaga tgcatcaag ctccaccctc 240
 ctggcctcat acagaaagtg acaagggcac aagctcaggt cctgctgcct ccttttcata 300
 caatggccaa cttattgtat tctcatgtc atcaaaacct gcgcagtcac tggcccaaca 360
 agaaggtttc tgtcctaata atataccaga ggaaagacca tggggtttgc tgttaccaaa 420
 tctcagtagc tgattctgaa caatttaggg actcttttaa cttgaggggc gttttgacta 480
 ctagagctcc atttctactc ttaaatgaga 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 gtgggttgcca acccttctcc atctcccgca gacgttttac 60

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tgcatgccag ataccatgtg cagtaacttn tgaatcctct cancccccta nctnccagaa	120
cacnggacta tnagttactt gaaagctgag gcttggtaga gggctggagc caattgcggt	180
aaactaacta acattattgc aaaatatatt ctagggtttt tactctaata aaaatgactc	240
ctggaactgc agtactatat tcttggaacc 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	
gtagcacat accattgaat tcttgagac acatgagaaa atatgggaaa gtcggagagt	60
ggaagtaaat gttaaagaccc cctcctccc 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
tctagaagct gaaatatcat catcaactcg acatgagggg ataacctctn gatccactca	360
tcagatgctc atcagacgtt 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 tttccaagt cagcttttta ctatgattac gtcctagcct cagatgtggt	60

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ctaccatcac tacttcctgg acaagctgct caccaccatg gtgtaccttt cccagccagg	120
gacggtgctg cnttgggcaa acaaattcan gggttcagcac cgactatgaa ttttttagata	180
aattcaagca agtttttgac acaacactgt tggctgaata tccagagtca tcagtcaaac	240
tttttaaggg gatactaaaa tgggactaaa tccaacaaaa tgcctttcac aacgttactg	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

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

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 <222> (93)..(93)
 <223> n is a, c, g, t or u

<220>
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 <222> (134)..(134)
 <223> n is a, c, g, t or u

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

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<220>
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 <222> (304)..(304)
 <223> n is a, c, g, t or u

<400> 399
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 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 gggcgggtat gcacagtaat aaaccacatc tgttgttctt 420
 acattaacag ttcaggattg gctaaactgc aagttcaaaa gatttaccaa gaccaggcac 480
 aat 483

<210> 400
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (483)..(483)
 <223> n is a, c, g, t or u

<400> 400
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 atcaacaagt tggatgaggg attaaaagcc ttcaacaacc aacaacccca agcatcaaac 180
 tgaaggaaac attctaacct tcacagacag actggagggtt ggatggggac ctggctgaag 240
 acatctggag aatgaaagtt aagtaccagc ttgcattttt gtgcccctag attatttttg 300
 cattttaaaa taagaagcat caaattgcgt gtctctgtgt aaaagttcta gcaatttggt 360
 ttaagggtgaa cttatttttg cttagggact acaaaaagag aaggtaattc ctagggaagg 420
 aagaagagaa agaaatgaaa attagagaat aagattatth tgaatgactt caggtagcga 480
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 tctagtatca gtgag 555

<210> 401
 <211> 327
 <212> DNA
 <213> Homo sapiens

<400> 401
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 aaaatgagag ctgcccaccc tggccttaca ctcttcaat taatacataa acagaaagga 120

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ggatatacag agagccaaag gcccatggga cgtgaccaac attccactga gtctatacga	180
tcaaacagca aactgtttat catgaatata gaatgtgggc aaactcatga ctgtgcctgc	240
cccagaaggt ttgctgaggg caattgcttc ctgacgccaa gctccttgag gttatctatt	300
gggacatcca gagaatgcag tcttgca	327

<210> 402
 <211> 497
 <212> DNA
 <213> Homo sapiens

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cataatgatg cttcttcctg ttaaatttac aatgaaggga aaccatcac ttaactgtag	180
gaatttccca aatgaactg atgaccagtg atctctctat cagaaaatgg cagatttcta	240
gccttccaga actttgattt tcttgacat tcaatgggtc ctttttccca aatatttttc	300
aactgatgcc aaaccttga tttggtttaa tccacctttg gtttaggttt ggggaccctt	360
ttcctggacc gtcccagttt tgggttaaac cgatttggat gacctgtga gtcgccactg	420
gataccgaca gtctgctgtg gtgcttagaa gccactgaaa cattggtgaa tgtgaagtca	480
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<210> 403
 <211> 512
 <212> DNA
 <213> Homo sapiens

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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 aaacaatgtt	360
ttcataatth tctatttgaa aatgtgctga ttctttgaat gttttattct ccagatttat	420
gcactttttt tcttcagcaa ttggtaaagt atacttttgt aaacaaaaat tgaaacattt	480
gcttttgctc cctaagtgcc ccagaattgg ga	512

<210> 404
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 404 caccatc aaactcaagc acagtatgcc tccccagtct ttatgcagcc tgtatataat	60
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cctcaccaac agtactcggg ctatagtatt gtgcctcagt cttgggtctcc aaatcctaca 120
ccttactttg aaacaccact ggctcccttt cccaatggta gttttgtgaa tggctttaat 180
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<210> 405
<211> 495
<212> DNA
<213> Homo sapiens

<400> 405
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cctgggctcc ctctgctact ccaggaat gggctcctga cacagcagtc tgccaccaca 180
gccccaggag ggtgtcaaca ccagcaaatg ctgtatttgc agcatgtcca agatgaccct 240
tctcccctac ctctacctag ccactggcag ggaggggaga cagtgggtgat agcagcagca 300
ctctaggcat ggtgaacgcc tgggaccaag ccatgtggcg ttttttattt tgcctttctg 360
gaagactcaa gatatgtctc ttcattctct ctcagtattt gtttactttg gtttttttgt 420
ttttaatctc agagagaggt gtgttttagtg ggcacaagct gtaatatcca gcaaaacttt 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
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ccagcagtcg cctgccctgc agtctgagct accagattcc ttgtgaagat aatttgagga 180
ccatgactca cccaaccaca tttcctgggg cctcaaattg aaaattcagg atgggctttt 240
ctatatgact ggctgatatc caactatgcc atggtcttta catgccatga acattctttc 300
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gaagctccac gtgtagctga gctacatgca ccaggcctca gtttgcccca agtcccctgt 420
gtactctctc atggcctgtg gccaaagaaat gtattctctc actttggact ta 472

<210> 407
<211> 395

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<212> DNA
 <213> Homo sapiens

<400> 407
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 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
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 catcttccta aaacatgttc tacttgtgaa aaccctaaga aattctctct gtcttattga 180
 aattctatct ccactgtgaa gcattatcat ggtgtggcca tatatgatct atccctatct 240
 gaagtcactg catttattcc ctgatcctca tttgcaggtc cagtaccttg tacaagtttc 300
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 tgtctgcata gtgtctagta cttgtctgag gcccaca 397

<210> 409
 <211> 48
 <212> DNA
 <213> Homo sapiens

<400> 409
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<210> 410
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 410
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 acttcggcag cggagccatg ttgcatgatg tggctctggg tgtgcccga aacgctctgc 120
 agcccactca cccagtgtac aacattggac cagacaaggt gatccaggcc actacatact 180
 ttctacagaa gccagtccca ggttttgagg agcttaagga tgagacatcg gcagagcctg 240
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 aaggtttata cgtttcaata catactgcat tctgtgtac acaagcctta gcctcagtgg 360
 agctgtgggt ctcttggtac tttcttgta aaaaaacca atggctctgg gtttgagaa 420

cacagtggct ggttttaaaa ttctttccac acctgtcaa 459

<210> 411
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 411
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 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
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 gacgtgagaa atatctttca gcccaggaga gaggggtcct gatcttaacc ctttcctggg 120
 tctcagacaa ctcagaaggt tggggggata ccagagaggt ggtggaatag gaccgcccc 180
 tccttacttg tgggatcaaa tgctgtaatg gtggaggtgt gggcagagga gggaggcaag 240
 tgctcctttga aagttgtgag agctcagagt ttctggggtc ctcattagga gccccatcc 300
 ctgtgttccc caagaattca gagaacagca ctggggctgg aatgatcttt aatgggcccc 360
 aggccaacag gcatatgcct cactactgcc tggagaaggg agagattcag gtcctccagc 420
 agcctccctc acccagtatg ttttacagat tacgggggga ccgggtgagc cagtgacccc 480
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 <212> DNA
 <213> Homo sapiens

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

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

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 nccccacatg cacacacttt taaaatctat ttttattctc ttgctaaagt tgtaattatg 180

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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

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tgttgaattt tagttgtaca tatactttgt atgtttttgt cttctt 166

<210> 415
<211> 552
<212> DNA
<213> Homo sapiens

<400> 415
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gggtgctccag ggggtgaagca ggccagaatc ctggggggagc tgctcctggt ttgagctgca 180
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cgtgtgccat gttgcacttc tgcccaggca gcagggtggg tgggtaccat ggggtgccac 480
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acataaaagc at 552

<210> 416
<211> 524
<212> DNA
<213> Homo sapiens

<400> 416
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cgcagcgcca tcctcctgca cctcagcaac ggcagcgtgc agatcaactt cttccaggat 120
cacaccaagc tcattttgtg cccactgatg gcagccgtga cctacatcga cgagaagcgg 180

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gacttccgca cataccgcct gagtctcctg gaggagtacg gctgctgcaa ggagctggcc	240
agccggctcc gctacgcccc cactatggtg gacaagctgc tgagctcacg ctcggccagc	300
aaccgtctca aggcctccta atagctgccc tcccctccgg actggtgccc tcctcactcc	360
cacctgcatc tggggcccat actggttggc tcccgcggtg ccatgtctgc agtgtgcccc	420
ccagccccgg tggctgggca gagctgcatc atccttgacg gtggggggtt ctgtataagt	480
tatttttgta catgttcggg tgtgggttct acagacttgt cccc	524

<210> 417
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 417	
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ctttgttttc tgagaagagg tttgaagaca ttttattaac agcttaattt ttctctttta	180
ctccatagga acttatttta atagtaacat taacaacaag aataactaaga ctgtttggga	240
attttaaaaa gctactagtg agaaacacaa tgatagggtg tagagcctga tgactccaaa	300
caaagccatc acccgcatc ttcctccttc ttctgggtgct acagctccaa 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 tgggggccct attccg	116

<210> 419
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 419	
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taacaagcta ttgtttggct atacattgtt ctttgtatca catattccag gaactacagg	120
aaaataatgg gtgaggcagc tagttag	147

<210> 420
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 420	
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ttttccacac atcgcacaga tgcctttttt gtaggcacag ccctggcagt aatgagaacc	120

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tggttggtgc acagaacttt tacaaattct acaagtggag aacttattct ttccatatgg	180
atcaaactctt gctttttttg aagtcaaagc tttattttca ttcagctttc ttccaccact	240
ttctgtggta ttcctagcac cacctttcca tgtatctgga gtgataacag taccaagttt	300
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<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

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attaaaanaa gaaaatatgg acctaaacaa tatgaatcaa agccttacct ttgaactaaa	120
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<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	
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tggtgcagat tcaaccacca cccagggagt gcttgagac tctgcataga tgttgctgca	180
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tcactatccc cagcctcaag gagnccaagg aagagtcatt cacatggaag gtccgggact	300
ggtcagccac tctgactttt ctaccacatt aaattctcca ttacatctca ctattggtaa	360
tggcttaagt gtaaagagcc atgatgtgta tattaagcta tgtgccacat atttatTTTT	420
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<210> 423
 <211> 510
 <212> DNA
 <213> Homo sapiens

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<220>
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 <223> n is a, c, g, t or u

<220>
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 <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
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 ggcgcttcat ccactcccag ctgcggcact ggcgggaata ctggaatgag cagagtgcaa 180
 agcggagagt ccagaccaca ccagactac cagccaggct catcaagagg gaatctgggt 240
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 agtctcccta aggccaaagt gctaagaaca ggaatcctct tgggtggggc cgagcanggg 360
 gcaaggagcc caggccccct ccctgcctcc tccttcctgc ctgtgatgct ccgtctcaaa 420
 cagccgaaac ctgtcttgca atggggggag gggngcggtt cnccttcctt cttcttggct 480
 tcctcttatt cttccacaaa ccattctcaa 510

<210> 424
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 424
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 gtcgagagct gacagaaagg tttgaagatg tttgggtggg atctgggcct ttgaccttac 120
 ctcagactag aggcgatgga aagaaaatag ttagttacca ggtgattggc gaggacaacg 180
 tggcagtccc c 191

<210> 425
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 425
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 tacagttttg tggactgagc gagggaaaaa aacaaataat ttaagttggc tagagcttct 120
 gtattttcaa agactgccac gtgccttagg aatactgttt tatctccata ctttggatga 180
 cttggt 186

<210> 426
 <211> 465

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<212> DNA

<213> Homo sapiens

<400> 426

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aaggataagc agccaatgga tgccaaggag ttcgaacctt aagacgtatt gccaatggg      180
gatgggacct accagggctg gataaccttg gctgtacccc ctggggaaga gcagagatat      240
acgtgccagg tggagcaccc aggcttgat cagcccctca ttgtgatctg ggagccctca      300
ccgtctggca ccctagtcac tggagtcac agtgggaatt ctgtttttgt cgtcatcttg      360
ttcattggaa ttttgttcat aatattaagg aagaggcagg gttcaagagg agccatgggg      420
cactacgtct tagctgaacg tgagtgcac gcagcctgca gactc                      465

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<210> 427

<211> 480

<212> DNA

<213> Homo sapiens

<400> 427

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gacccacccc attccaaggc ggggtcacgg taccagcagc acttgggggtg aggcctccaa      120
agcttcctca gaattgtggc tgtgccacgc tggaccacag ggtccccctc aagcatctcg      180
gggccctatt ctctctgagc acctggaggg ctggactcag gcttgtgcca gggcctgact      240
tgggcctggg ggccctagaa cactcctcct cctgagccta ctgccaaacg tcctcagtgt      300
tgtctgcacc tgctccgact ccttcagccg cccattcag cgcccgtcc gtccagtgcc      360
cgccctgtgg ggccaaggcg gccgtgcctt actactctgt gtcttctgcc tcctctgagg      420
aatctggccc tgtctgacag tcccagaccc ccggttctct cctctttagt tgcatgagtt      480

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<210> 428

<211> 533

<212> DNA

<213> Homo sapiens

<400> 428

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atgccggagc cccctcactg ttcttctcca ggaagtggct ggggtcgggg aacagatgaa      120
tatttcaccc ggaagccgcc aagtgatttt ctcttcccca aaccacaatag gttccagcct      180
gaactgtctg cccctgatct gcggcgattt atcgatggtc caaaccgggc tgtggccctg      240
cttccggagc tacgggaggt cgtctcctct atcagctaca tcgctcgaca gctgcaggaa      300
caggaggacc acgatgcgct gaaggaggac tggcagtttg tggccatggg agtggaccgc      360
ctcttctgtg ggactttcat catcttcacc agcgttggga ccctagtcac cttcctggac      420
gccacgtacc acttgcccc tccagacccc tttccttgaa gactggaggg ttgagaccag      480
gccccctgcc agttgaagtg agagagtttg gtgatactgt caagccctat cct                      533

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<210> 429
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 429
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 cgatgttagt gtttccattg tattttctta cagtgtgcc a ttctgttaga tactatcctt 180
 ataattgatg agcaagacat actgaatgca tatttcgggt 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 cccattgcc a tgcgtcctgg tcaagcccc ctcactctgt ttcttgggtca 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

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

<400> 431
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 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 cgttttgcat actgggttgg tttgctgggg ctgcggtgac agcatatgcc 60

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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 attttgcggg tacacaattc aatccatgac agaatccaaa	480
ggtttactct gggtataaaa acagtacaat aaaatattgt ttatagcctt ccctgta	537

<210> 433
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
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 <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	
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tctcaaggag aaagtggaaa aaatccatgg aaactcttca gatagactnt cttctattcg	120
tgtctatgaa cgaatgccag tggaatcctt aaacacatta cttaaacagc tagaagaaga	180
aaagangact cttgaaagtc aagtgaataa ctatgcactt aaactggaac aagaatcaaa	240
ggcttaccag aagatcaaca atgaacgccg tacataccta gctgaaatgt ctcagggttc	300
tggtttacat caagtttcta aaaggcaaca ggtggatcaa ctgcctagga tgcaa	355

<210> 434
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 434	
ggcaagaagc caggtaaggc atgcagtctt tctgttcccc gttggggggag tggattaaag	60
gaactgtgtc ttcaggatac agtgagctgt aaaaatagac aacaagaaca cggaactat	120
ggtagacgaa tgggctgagg acacagttca tgaaagagaa atatactcaa gatagaagaa	180
cctgcttcat cttagtgggtg atttttgtaa aatgtaattt aaaatattcc ccgatgctgg	240
gagctaagta aaaaataaat aagtaaataa aatacaaaat tacatgtaca tttaaattgt	300

ttttctctat caagtttat

<210> 435
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 435
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 aggccatat cattcgaggg agcagagcac tgacagtggc ctgggggttag 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 gcaggtgcac cacttcccgc ctccatgact cgtgctcct 480
 cctttttatg ttgccagttt aatcattgcc t 511

<210> 436
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
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 <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
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 gattcagcaa tgtcaaatcc ctccagcanc nntgcnntn ccggatacga cagctcgtca 120
 ggatagatca catcccagat ctcccactgc ctaaacctct gatctcttat atccgaaagt 180
 tctactacta tgatcctcag gaagaggtat acctgtctct aaaggaagcg cagctcattt 240
 ccaaacagaa gcaagaggtg gaaccctcca cgtagcgagg ggctccctgc tggtcaccac 300
 caagggcatt tgggtgcaa gctccagctt tgaagaacca aattaagcta ccatgaaaag 360
 aagaggaaaa gtgagggaac aggaaggttg ggattctctg tgcagagact ttggttcccc 420

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acgcagccct ggggcttgga agaagcacat gaccgtactc tgcgtggggc tccacctcac 480
 acccaccctt gggcatctta ggactggagg ggctc 515

<210> 437
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 437
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 ccgttcagtt gtgaagacct ctgctctgcc ctgagcaacc agagcctcgt cactctggac 120
 ctgggtcaga atcccttggg gtctagtggg gtgaagatgc tgtttgaaac cttgacatgt 180
 tccagtggca ccctccggac actcagggtg aaaatcgatg actttaatga tgaactcaat 240
 aagctgctgg aagaaataga agaaaaaac ccacaactga ttattgatac tgagaaacat 300
 catccctggg cagaaaggcc ttcttctcat gacttcatga tctgaatccc cccgagtcac 360
 tcattctcca tgaagtcacg gattttccag gtgttggtga actgcctgtg actcctctcc 420
 tccccggccc ctaccctca gggataatga gttcattgct gggctagatg ttttagccat 480
 gattctgcc 489

<210> 438
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
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 <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

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 <222> (303)..(304)
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<220>
 <221> misc_feature
 <222> (313)..(314)
 <223> n is a, c, g, t or u

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 <222> (322)..(323)
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 <223> n is a, c, g, t or u

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 <221> misc_feature
 <222> (332)..(333)
 <223> n is a, c, g, t or u

<220>
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 <222> (350)..(351)
 <223> n is a, c, g, t or u

<220>
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 <222> (369)..(370)
 <223> n is a, c, g, t or u

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

<220>
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 <222> (389)..(389)
 <223> n is a, c, g, t or u

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

<220>
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 <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
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 cttacagtga ccattgctt gaatcagtgg acattcgtca gatttatgac aaatttcctg 120
 aaaagaaagg tggcttaaag gaactgtttg gaaagggccc tcaaaatgcc ttcttcctcg 180
 taaaattctg ggctgattta aactgcaata ttcaagatga tgctggggct ttttatgggtg 240
 taaccagtca gtacgagagt tctgaaaata tgacngtcac ctgnnccacc aanntttgct 300
 ccnntgggaa gcnnntagta gnnaaantag annccgagta tgcaaggtn nagaatggcc 360
 gatttgtnn ccgaataaac cgctcncna tgtgtgaata tatgatcnac ttcattccaca 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 cagcagtggg gaccccccaa gcccactggg gaaacagctg 60
 agtgaagtat ttgaaactga agactctaaa tcaaattctt cccagagacc tgttctgccc 120
 ccagaggcac ctttatcttc tgaattggac ttgcctctgg gtaccagatt atctgttgag 180
 gaacagatgc caccttggaa ccagactgag ttcccccca aacaggtggt ttccaaggag 240
 gaagcaagac agcccacaga aaccctgtg gccagccaga gctccgacaa gccctcaagg 300
 gaccctgaga ctcccagatc ttccaggttct atgcgcaata gatggaaacc aaacagcagc 360
 aaggtactag ggagatcccc cctcaccatc ctgcaggatg acaactcccc tggcaccctg 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
 ggcgtataat tcagccctgt ttaaataatc ttgcctttca aattcttcaa gtaacatggg 60
 aagtattctt gaaatgtcac attttctgcc ttccctctaa gtatgctttc tgaagaagtc 120
 agggaaagtt agagtctgtg gcctgagggtg tctgctctgg gtggcgatag tgggcacctc 180
 aggcaggctg gtgacgttta gcacagggtg cagggtcctt gcctgctcct cctgtgttag 240
 ctctgtgaag ttcatctagg aatttttttt tcctatgcag tttaagaaat aatcctaatt 300
 gttttttctt attacctaag caatatattt ttattatagc aacctcagaa aagaaaaata 360
 aaaggataat ttaaaaaact cattcatagt ctcagttacc cagataacct cggttgctac 420
 cttggagtat cttgtttag tccctttac 449

<210> 441
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 441
 agcagaggct catccgggag cagatacgcc aggagcgtga ccagagggtg agaggaaagg 60
 cagaaaatac tgaaggccaa ggaaccccca aactaaagct aaaatggaag tgcaagaagg 120
 aggatgagtc aaaagggtgg tacttcaaag acgtcctcct acggcttttg cagaagtatg 180
 gtgagggttct caacctgggtg ctttccagta agaagccagg cactgctgtg gtggagtttg 240
 caaccgtcaa ggcagcggag ctggctgtcc agaatgaagt tggcctgggtg gataaccctc 300

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tgaagatttc ctggttggag ggacagcccc aggatgccgt gggccgcagc cactcaggac	360
tgtcaaaggg ctcagtgtctg tcagagaggg actacgagag cctcgtcatg atgcgcatgc	420
gccaggcggc cgagcggcaa cagctgacgc cacggat	457

<210> 442
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 442	
aaggctatta acgacgcgat ttcacaaagt cggcagagtt ctgcgggaaa tcccctggaa	60
agactcaatt aaagagcagt gaagagagtg cagatccccgt cactggaagt tcggaaaatg	120
cagtgtcatc ttcagaactg atgtcccaga ctccagtgga agttctgggt accaacgaga	180
atgagaaaact gagccctaca agtaatacct catatagttt agaaaaaatc tccagtctgg	240
cccctcctag catggagtac tgcgttttac tcttctgctg ttgtatttgt ggttttgaat	300
caaccagcaa agaaaacctc ttggatcata tgaaagagca cgagggtgaa attgtaaaca	360
tcattctgaa 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

<400> 443
 caaccgagag ggccggcagg agcttgaaat cattattgga gatgaacaca tttcttttac 60
 aacatcaaaa atnggttccc ttattgatgt cagtcaatcc aaggatccag aaggcttatg 120
 agtattttat tatcctgtcc aggaccctga agtgtttggt cttcagtctt actggattac 180
 acttcaagat taaaccaatc taaactgaat attgatgtgg acatgggggg gtgggagtag 240
 ttntnaatta ccattatcaa gaacatttng tgtcagggca gtatatTTTT ataaactata 300
 tatgattatc ttttaataaan tatgtgataa aattttaaaaa aagcaaaaaca aaacttctag 360
 angaataccn tcaaaacctt ggtgagggan attcttanac agcacaacaaa tcattaggnn 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

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cgccgctgcg aattctcgga caaaactgtc aacagcccgg gcgcgccttt tggctctgcg      60
ggccccctcta tttatgcaaa gccgacctat gctacagccc cccaaccccc gacctgggggt    120
agggaggaag aggggtgccgg ggaagggagt ccgccctgtc caggcactag aggctccctt      180
gacgtttggc agatgaaaaa caactaagcc tttttgaggt gtagagattc tcagggtccag      240
gcgttaaaaa ataatgggtca aaagaataat acaaaaatag taaaggtctt gaagaatgcc      300
agcgaagcaa ttctttttta tttgaggaca cttgtctggt gtactttttc atg                353

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<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

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<400> 446
gaggaagata tcctggctgg cactctttca gttgacagag agtgacctca ggctggggcg      60
gctcctcttc cgtgtggccc cggatcagca caccaggctg ctgcctttcg ctttttacag      120
tcttctctcc tacttccatg aagacgcggc catcagggaag gaggccttcc tgcattgtgc      180
tgtggacatg tacttgaagc tgggtccagct cttcgtggct ggggatacaa gcacagtttc      240
acctccagct ggcaggagcc tggagctcaa gggtnnnnca gggcaacccc gtggaactga      300
taacaaaagc tcgtcttttt ctgctgcagt taatacctcg gtgcccgaag aagagcttct      360
cacacgtggc agagctgctg gctgatcgtg gggactgcga cccagagggtg agcgcc          416

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<210> 447
 <211> 409
 <212> DNA
 <213> Homo sapiens

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<400> 447
gctccccaca tgctggtggt gtactctgct aatggagaga tgtttaaact gagagctgct      60
gatgcaaaag agaaacaatt ctgggtgact cagcttcgag cttgtgcaa ataccacatg      120
gaaatgaatt ctaagagtgc tccaagctcc cgaagccgaa gtctcacttt gctcccacat      180
ggaacaccca attctgcgtc tccctgtagc cagagacacc tcagtgtggg ggcccccggt      240
gttgtcacia tcacgcatca caagtcgcct gcagccgcc gaagagccaa gtagtcagtat      300
tccggccagc ttcacgaagt cagagaggta cacactctcc tgacagagga aagctgtttg      360
ctgcactggt ttactggata gattaactgg gttgaggctg tgtaattta                    409

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<210> 448
 <211> 316
 <212> DNA
 <213> Homo sapiens

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<400> 448
gaggggcaca tgcaagtcac caaagtggga agccttcacc aaggccacac ccaaagtcta      60

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ctgattgtct gtccaaagtt cgttgattcc tggccatgaa caagcacaat agaaaaagac	120
acagggtcct agtggctaca agtcaatgtg aattggcaca tggcttagca gttttaaaat	180
ctgacagtag agtatggcaa tgggcaagg ccaagaagtc ctgagatggg aggtcagcgc	240
tctaactggg ctgagtggag 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	
gcactttagt gattgctttt attacattag ttaagatgtc ttgagagacc atctcctatc	60
ttttatttca ttcatatcct ccgccctttt tgtcctagag tgagagtttg gaagggtgtcc	120
aaatttaatg tagacattat cttttggctc tgaagaagca aacatgacta gagacgcacc	180
ttgctgcagt gtccagaagc ggcctgtgcg ttcccttcag tactgcagcg ccaccagtg	240
naaggacact cttggctcgt ttgggctcaa ggcaccgcag cctgtcagcc aacattgcct	300
tgcatttgta ccttattgat ctttgcccat ggaagtctca nagatctttc gttggttgtt	360
tctctgagct ttgttactga aatnngcctc gtggggagca tcagagaagg ccaggangan	420

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tggtgtnttn 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
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 tgggcagtggt ctccaatctg tggaccagta tttcagcttt ccctgaagat caggcaggggt 120
 gccattcatt gtctttctct cctagccccc tcaggaaaga aggactatat ttgtactgta 180
 ccctaggggt tctggaaggg aaaacatgga atcaggattc tatagactga taggccctat 240
 ccacaagggc catgactggg aaaaggtatg ggagcagaag gagaattggg atttttaggggt 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
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 gccctcctct gtgccgtggt cacgggcgtc atctggaggc agcccagag caagaccaag 180
 ctctcattta aggttccctt cctgccagtgt 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 cggcggtgctc tggccggtag 60

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tgactggtgg gcgcgctcga ggactccaag gggcgagcc cgggggcaga cccttgggtc	120
gggcggggat cttacgcttc cttacccgc ccccttttgt cttcacctc agccccgccg	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	
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tataaaacaa acagtgataa tctcaagtta gaaaacagta ggtcctgaga accataagaa	120
aaatgactgg tgtgatgttg agtaacaagt tggtagctt acttttagcta tttattaact	180
tgctcatctc atagaacatt ttaatagatt tttcacacac ctcattatta aaaaaaaca	240
aacatgctgg tgtcttggtt acccattatt cctctgtacc tgaattcagg ttggtttttc	300
tatttggaag agactttata aatggttggt taaaagagg ttgagcacca gaatctcaga	360
atttaccacc aaagaactca tcca	384

<210> 454
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 454	
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ttcgtttctc ctttgattct ctgtattgag caagtcttag acatcatagc tttccgcgt	120
aagtacctta ttctacatca ttaaccagta aggacttttt aattaaccac aataccacta	180
tcacacctaa taatagtaat tccttatgga tcttttcttt agacctattt ttgaaggcat	240
aaaagcagtt gagtttctgg agaatttttg gatggtgatt aatgacttga ctggctgctc	300
ttcccagagc tgtggcagct ctcccccggt agaagatggg gtttgtattg gcgcaccaag	360
atctccaaca gccagtgtgt gtttccatt tcctgtaggt tccatca	407

<210> 455
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 455	
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accttggtgtg ctcagatcat cttcaggaag gaaaaggcat cctggagaca ggagtccatt	120

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cactcctctg ctctctaccc actcatttgc ttgccaaact tagctttgcc agtgatagtc 180
aatattaaag tgtacttttt tcccctttta tccaatatag ttg 223

<210> 456
<211> 160
<212> DNA
<213> Homo sapiens

<400> 456
tataattata accttaccgc atggacagtt ttgaatccta tgctaattgg ggtaattaag 60
tcaattatatt catatgttat gttctcttca tgtgcatttt tcaatgatat attatgttcc 120
attgtgttgg aatgtgaatg ttcaattact tttccctata 160

<210> 457
<211> 465
<212> DNA
<213> Homo sapiens

<400> 457
ccacatccat ggcctaggag ctactgggca gggtcccggc cacacatctg gtgggctgtt 60
ttgttttttt ttttcctctt cccccagatg tcttgacggg atcactgggg ctctttgtga 120
gtgaggggtg ccaaactacc gccggaggag atgggggtctc agagcgagag ctgcggaggg 180
ggaggggaag aagaaggcct cacttttgc tctgcggggc ccacacagcc gctgctactt 240
tggggggtgg ggaaggggccc aagctgcaga cacacacagt cattcatttc tgtccacacc 300
cctgtgggtg gcgggtgtgc gtgtgtgtgc ttgtgtgtgc gcacgtgtcg gcgctcacac 360
acacatgcta gccactgat gcacccagcc cagggtggc 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

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<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
 ggttgtagctc aagatgtttt cctggaaaaa ttcattctgc tttctgacca ggatttccag 60
 aaactctgac ctttctaaga ggtctgggtg gaattgtgat ggtgattctg ctagtagaca 120
 gtgtaacttc tgcgtctaca aaaagaggat aggccgtcac nntcacatg gctttgcgtg 180
 aaagcccaat ggtactgtct ctatggcaga gatgaggaag gaacaccagc gtcctccaac 240
 tttcctgttc ttcctttggg ttaatggcca ctgtaaggaa acagtgttct gccacgtgtg 300
 ggggtgatttg aatgtaaaat gcccaactct catagcaggc tg 342

<210> 460
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 460
 aaggggaaga ttgtctgctg ctgccgggcc aagttcccg cgttctcgtg gccgcccagc 60
 tgtctcttct gcaagagagc cgtctgcact tcctgtagca taaagatgaa gatgccttct 120
 aagaaatttg gacacatccc tgtctacaca ctgggctttg agagtcctca gagggatatca 180
 gctgcaaaaa ccgcgccaat ccagagaaga gacatctttc agtctctgca agggccacag 240
 tggcagagcg tggaggaggc gttccccccac atctactccc acggctgtgt cctgaaggat 300
 gtctgcagtg agtgcaccag ctttgtggca gacgtgggtg gttccagccg caagagcgtg 360
 gacgtcctca aactacgcc acgacgcagt cgccagaccc aatccctcta catccctaac 420
 accaggactc ttgacttcaa gtgacagccc cagggtggcca ggcctccagg aggcaccagg 480
 caggccctgt atcaggctag gacgtctga gctgtgcat 519

<210> 461
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 461
 tccccctct gaattttact gatgaagaaa ctgaggccac agagctaaag tgacttttcc 60
 caaggtcgcc cagcgaggac gtgggacttc tcagacgtca ggagagtgat gtgaggagc 120
 tgtgtgacca tagaaagtga cgtgttaaaa accagcgctg ccctctttga aagccagga 180
 gcatcattca tttagcctgc tgagaaga 208

<210> 462
 <211> 532
 <212> DNA
 <213> Homo sapiens

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<400> 462
ctcagcattt agtgaaggta attccaaaat actggtatca gtactcttat ttataagtgt 60
acggaatgca taacatgaac attagtcaaa gaacttttaa tataattcac tttttaagtg 120
ttaaaattta aagggtcaagt aaaattgtaa atttgtaata tggaaacatt aagcgtcatt 180
atcatacaaa ttattagcag ataaccttaa taaaaataaa cgtttgcggg ttttttttga 240
gacagggctc cgctttgtca cctaagctgg agtgcagtgc gcgatctcgg ctactgcaa 300
cttccgcctc ctgggatcaa gtgattctcc tgccttagcc tcctgagtat ctgggtttac 360
aggtgtgtac cgccacaccc gtcttacta aaaatacaaa aaacaaaaaa agattagctg 420
ggcgtggtgg cagggtgcctg tgggtcccagc tgctcgggag gctgaggcag gagaatagca 480
tggacctggg aggcggagct tgcagtgagc tgaaatggtg ccaactgcact cc 532

<210> 463
<211> 542
<212> DNA
<213> Homo sapiens

<400> 463
attatcgatc atgtctattg ctccccgtcc cttcgctgcg ttcagactgc acacaatatc 60
ttgaaagggt tacaacaaga aaatcacttg aagatccgtg tagagcccg gcttatttgag 120
tggacaaaat ggggttgctgg 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
gccccatttc tgatgtcgcc aggtgtgcct gagcccatcg gggccaggcc tgaggaagtg 240

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tttcttggga g gatgggatg accccctgtt 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 gacccggcaa attctcattt tattgcctgg	180
actggtcgag gcatggaatt taaactgatt gagcctgaag aggtggccccg acgttggggc	240
attcagaaaa acaggccagc tatgaactat gataaactta gccgttcact ccgctattac	300
tatgagaaaag gaattatgca aaaggtggct ggagagagat atgtctacaa gtttgtgtgt	360
gatccagaag cctttttctc 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	
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cacgggcaga gcattcttgg ctgattgagg ggaagttcca gcaatcagca caagtgttct	120
ttatacccca aatcactaaa acatatagag gggcttatgt cngtttcacata cataactcag	180
ccactggtgg aacaaatctc ataataaaga 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

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<400> 467
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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 gggcagggtg ggagccggga ccctcagggtg 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
cagctttgag ctggaaaaac ntctgaccct ggagccaaag ccagacactg acaag 115

<210> 471
<211> 475
<212> DNA
<213> Homo sapiens

<400> 471
cagcgcctcc ggttataagt tgaagaaata agaccagttt ccaaataaat gacaaagagc 60
ttggtattcc tgcaggcatc agaatcacct ggaggaggag atgctgctgc tggtggtggc 120
ccagagacca cacattgaga accactgctc tagaaaacca tttgtctttg ctgatggaga 180
aacctggctc taatagaagg gcttgatgt gtccaggaag tctagtgaat tgcaccatga 240
atccagacat ggccagtggc taaatcctgt ggggaagacac tgtgcttctc tctgacccat 300

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gaacactctg ctagtcaagc tctctgtcac aaagacaact tgaagagaca gagtggacct 360
cacagaagat accatcgtca ctcttaccaa tgcaactgtg gtgaacagga ccactattat 420
tccttagatc aaaaggacag cacattcaac agcatcctca tggcatgcca gcaat 475

<210> 472
<211> 446
<212> DNA
<213> Homo sapiens

<400> 472
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tccctggctg gccctgctgt tagtcacaga ggccgcaagg ccaagacgtg agtgggctgc 120
ccctccacct aggttttcca ccgtggccac tccctccatg accaggcctg actctgttaa 180
ccactacttg aagtcttgag ggggaaagcc tccaggggaga catagggggc ttctcccttc 240
ttcccaccaa agtagggggg aggcaactgg ttgtcatgga aatggggatc atcacagtcc 300
ccttcccctt caccacacgt ggctgggcag tgtaagggt ggcaagatag tctctgtccc 360
caccctcttg tacttgattc cccagctgtc tttcacacag cccccaccc ttaggggaag 420
ggggaggggc ttctctacaa tgaggt 446

<210> 473
<211> 443
<212> DNA
<213> Homo sapiens

<400> 473
gagacttggt ggtctgagct gtcccaagtc ctccggttct tcctcgggat tggcgggtcc 60
acttgccagg gctctggggg cagatttgtg gggacctcag cctgcaccct cttctcctct 120
ggcttccctc tctgaaatag ccgaactcca ggctgggctg agccaaagcc agagtggcca 180
cggcccaggg agggtagct ggtgcctgct ttgacgggcc aggccctgga gggcagagac 240
aatcacgggc ggtcctgcac agattcccag gccagggctg ggtcacagga aggaaacaac 300
atcttcttga aaggggaaac gtctcccaga tcgctccctt ggctttgagg ccgaagctgc 360
tgtgactgtg tccccttact gagcgcaagc cacagcctgt cttgtcaggt ggaccctgta 420
aatacatcct ttttctgcta acc 443

<210> 474
<211> 465
<212> DNA
<213> Homo sapiens

<400> 474
cctaattcac acaaagactc cttgtggact ggctgtgccc ctgatgcagc ctgtggctgg 60
agtggccaaa taggaggag actgtggtag gggcaggag gcaacactgc tgtccacatg 120
acctccattt ccaaagtc tctgctccag caactgccct tccagggtggg tgtgggacac 180
ctgggagaag gtctccaagg gaggggtgcag ccctcttgcc cgcaccctc cctgcttgca 240
cacttcccca tctttgatcc ttctgagctc cacctctggt ggctcctcct aggaaaccag 300

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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
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 acccccaccc caccaccacc cagcctccag aagctggaac catttctccc gcaggcctga 120
 gttcctaagg aaaccaccct accgggggtgg aagggaaggg caggggaagaa acccactctt 180
 gctctacgag gagcaagtgc ctgccccctc ccagcagcca gccctgcca agttgcatta 240
 tctttggcca aggctgggccc tgacgggttat gatttcagcc ctgggctgctc 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 tccccggggc ccttgacagag 60
 gaaactcagt ctgctggagc aggaatccca gcagcaggag ctgcagatcc agggcttcga 120
 gagtgcctc gccgagatcc gcgccgacaa acagaacctg gaggccattc tgcacagcct 180
 gcccagagaac tgtgccagct ggcagtgagg gctgcccaga tccccggcac aactcccc 240
 acctgctgtt tacatgaccc aggggggtgca cactacccca cagggtgtgcc catacagaca 300
 ttccccggag ccggctgctg tgaactcgac cccgtgtgga tagtcacact ccctgccgat 360
 tctgtctgtg gcttcttccc tgccagcagg actgagtgtg cgtaccagcgc 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 gtaaaaattt gactgccgca 60

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aagaaaaatg agttggtaca aaagacaaaa tcagagttca atttcagcag caagacttat	120
caagaattta attactatth gacatcaatg gttggttgcc tgtggacgtc caaacccctt	180
gcgaaaggaa tatatatattga ccctgaaatc ctagaaaaaa ctggagtggc tgaatataaa	240
aacagtttaa atgtagtcca tcatccttct ttcttgagtt acgctgtttc ctttttgcta	300
caggaaagcc cagaagaaag gacagtaaac gtgagctcta tncggggaaa gaaatggagc	360
tggtatttgg actattttatt ttcacagggg ttacaaggct tgaaactttt tataagaagt	420
agtgttcac tcatttccat tcccagagca gagggcataa actgcaacaa tcaat	475

<210> 478
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 478	
ctcgcagagt tccgtcgatc aggactggag gaagccacgt ttcaacagat atatagtcaa	60
catgtggcac tgtgcagaat ggagggactg ccgtacccca ccatgtcaga gaccatggcc	120
gtgtgttctc acctgggctc ctgtcgcttc ctgcttgagg agcccagcag gaacgatctg	180
ctccttcggg tgcggctcaa cgtcagccag gatgatgtgc tgtatgcgct gaaagacgag	240
taaaggggct tcacaagtta aaagactggg gtcttgctgg gttttgtttt ttgagacagg	300
gtcttgctct gtcgcccagg ctggagtgc gtggcacgat catggctcac tgcagccttg	360
acttctcagg cttaggtgac cccccaacct catcctcca ggtggctgaa actacaggca	420
catgccacca tgcccagctg attttttgta gagacagggc ttcacatgt 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	
ttttttaggg actctcaacc tcctggcagg gttaaaggga gagtacttta aacctatata	60
ccagctgtgc tnnnnntct ctactttgc cctgggtaag ctgctgtagg gtcagaagta	120
accttttctg tgccagttga gaatgagcct gtgtggtagc tgatgtcaga ggacaaagct	180
ctctgcaagg gctggacaca gagctgcaga gtcctgaaca tccctccttt caggctgcag	240
aagggagagg caatgaagac aggtgctccg gaagcagcat cagggtctt ggaggggact	300
ggtggggact caggctgggt gcagcctcca aacagagaac ggaacttagg tgtgtctcta	360

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cagnctaggc ccagcctagc ccagcccaga acaaacaccc 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
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ctgatgttct tgtgagncaa ggagattgag ttcactatgg agaagtcagc agcaggaggc 120
ccatccctta ctcatgtgcc gggacatccc cagtctcggg ggaagaagat gccatgggct 180
tatacccagg ctgtagccaa ctaccaacgt gcctgtttgt ttgttgctct ttccttctct 240
ccatcatagt ctgggtgcca gcgccctgaa gctccgtgct caactgatta aactttactg 300
ccctatggtg accatctagg agaggggagg gcagaggggg tgaggggtact attctggatt 360
gagaaaacct atatccattc tttatatcaa tgtatagttt tagtctccta aattgatctg 420
ttattttcca aactattctc ttgtagaaaa ttttccagtg 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
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agtagtaggg actggagcgt ctacaaggat ggaggggagc tactcaggcc taacgttagc 120
tacaaggaaa aaggacgcct tccgtgacag atccttgagg tgtctgtgtc tgccccaagt 180
ggccggcagt ggccttnctt ccgggcccga ggcctgcagc cacctgctct aactcttgag 240
tggggngcgg gggggggacc tgcaggggct cggggacagg acagcagcaa gaggcagggg 300
ccgaggacgg aggccttccc gacagtgggg tgggtgttac attcaagtgt gaggtgaacc 360
ctttggtggg gagggggccc ctgaagcctc ggcggggcca cccctccccg cggcgcctct 420

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gagtctaggg agaggggctg ctggctcggc ccggccggcc tggcttcaca gaggggtctgc 480
ggattgacac tggttctttt c 501

<210> 482
<211> 490
<212> DNA
<213> Homo sapiens

<220>
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<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
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 atgatacagga cttcacttct ttgatttat 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 ncnncnntac tgtcctgtgg tctagtgggc agggacctgg gggccatcag 420
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 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
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 ccnagcctgt tccacaggca cccctgcagg aggcgctgcc aggagagcct tccatctcgg 120
 ggctctttga ggttccttcc 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 gaataataaaa atctaaaatt cactatttgg 120

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gatgtaggtg gaaaacacaa attagacca ttgtggaaac attattacct caataactcaa	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	
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ctagcagagc ctctcctggc agcttctcag gtctccctaa tggagacacc aggctactag	120
gacactggct ggggccaccc cctcctgcct aatgcctcac cttacagctg gggaaactga	180
ggcctggaat ggccagagt caccaaggca aagttggggc tggccccagc ctgaggctcc	240
agctgatgcc ctacagctccc agagaggggg tgccccatct agctgggtgc aggggtcact	300
gcttgtcagc tcagggccct gtgcccgtt gcctgttccc ctacatctgt gcctgcacat	360
ccagaactgc ctcttgccg ctgcctccag gaagcccacc ttgagccaga gtcaagggct	420
gcagcactgc ccgatagaac acgcccggcc tctgtgctgt tcttgctta 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 ctccaggagc caaaaacaaa agcagctcgg agtctgtgtt	60
gcctgattgg aaagtagaag ctctgggtgta tgctacagca cataacacat ttttactaaa	120
ggaaaaaagc taattatgtc catgcctctc gtaaaaactgg ggggaacctt aaagagaaag	180
aactaaggct taagttatct gtagtataat caattagaag taatgaatgg atgcatgtaa	240
aatggatgtg attttttttc aagcttattt tgaaatctta aaaatcaggt tacaccatag	300
ctactcaaaa gttttacaca cttaaaactc agatcagtaa gtgttggtac cttttagact	360
cataaaattg aataaaccat tgcaatgctt taaaaaaaaa naaaaaaaaa ggttttattg	420

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ctatgatttt atggcagaca catccaagca aaaccatttt ccaaatgcag 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 gcaaaacaaa aacagaaaag caaaaaacag ttaatttttg	120
tttgggtcaag ttactcaac cagaccacct tgataccaac aatgctggag agcatttggc	180
aagagcaggg ccacaatgcc aaattccttg gaaaggtaga cttcctatga tactttcatg	240
gattggcaaa tttgtggggt ttttttggtg gtagcttttg agaatgtag tttctggctg	300
gggtagtgac ttacatctgt aatcccagca cttcgggagg cgaaggcagg tggattgctt	360
gtgcccagga gtttgagacc agcctgggta acatgggtgag accccatctc tatttttata	420
aaattaaaaa aaaaaaaaaa gatagagaat gttactttcc tataaagcca tgatacccta	480
agtactaaga catgtctgtt gttgtccttt ctttcataac 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 tttatttttg ccaggaccca gaaaggagtc tactgctaag	60
atttcagcat gtcctgtggc tgagtnaatc agagttatga cagganggta ccgggcacac	120
catcgcaatg ctccatcaan gctagtatgt tgtgttcttt cttcatatc aagtcaactc	180
aagcttgctc tacttacctg gtgtacacag tctaagaact gtaagaagac tggagcaaaa	240
ccactcccct gacagttgag ggtcaagctg ctctctgac tgaatttgtg accaaaagag	300
agccactctt tttcaaccaa catctggaag cttcaagtgc tcctataaaa gggatcactg	360

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agtaactgaa ccagggatgt cacctagggc ataagcagga tggattgtca ttaatttttag	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
aagtccctgt actactatat ccagcaagac actaaggggtg ctgtacctgt gtggtggaga	180
tggctgaagt cgcacacagc acgagcgctc agaaatgggtg ctcccatgc ttccagctaa	240
caggtctaga aaaccgctt 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	
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caccttctca aaactgagtc agcaagagaa aatcttgtct 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 aagggtttta 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
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 agcattaggc atgtagcaca gttagcagat ggtggttggc tccctctgct tttccatcag 120
 tctgtggcct agtttaaagtg gtgggaggaa ggggtgtgaga tttaaggctg gttgtaaggg 180
 atcagtcagt gtagttggaa aaattgtaag atgaagttat aggatataga cncaaaccctt 240
 cctggaaggc cagaaagtnt gcatagcttc aataaaggat ttggctgaaa gcagcgtaat 300
 cccctttacc ttgagttgat agcaatagag caaataacat gggaacgtgg gggagtttat 360
 tgaatagctt gtttactcat gtggctctaa gaccaaccctt tgattatcca cgggtgcatg 420
 attgctctct actcggtggt cggcaaattt aattaccac aggtgtgttg actcaaagcc 480
 tctgtcatta aatctatgct gaataaatgc cgtcaggcca gctagtcaag gtgcacaact 540
 ctttttgtgc gtggtgtgg 559

<210> 493
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 493
 gtaagtctca gtccttttaa actcagaaaa aggtgtgttt tccaaattta atatttcctt 60
 tctgtaagtc tcagtgtctg cactatttgt cttggagact taaaattatc ccttgaaagc 120
 ataagaagta caccctaaac cagctttgtc cttcctgtcc tcttctagtt tacattttat 180
 gtggttagta attttgtacc taaaagtatt tgaaattcta taaatttgga cttgacgtga 240
 gcaaaagaaa atttctacgt aagcgaaact aataaaacta 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
 aactgctggg gccctccta ggaggtggca tgagttacat gcagacagag acgatccggg 240
 ggcagacgga gttccatgtg gggcagtggg gagggcagac gctctggggc tgggatccct 300
 gggagtgttc gagaagcacc gagaaggctt ctgtggctgg agccggccag ctgggggaga 360

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tggggccagg	gagatggcag	gggcctctcc	ctgtcccagg	accagagacc	aaggaggct	420
ttaagcccag	gaccaggggt	ctgaaaacga	aaagcactca	cagtccttga	acattg	476

<210> 495
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 495		
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cgggccttcc	ccgcccagac	ggccagcggc ttcaagcaga ggccctacag tgtggccgtg 120
cccgcttct	cccagggcct	ggatgactat ggagcgcggt ccatgagcag tggcagcggc 180
acgctggtgt	ccacagtgtg	aggacgctga ccccgggcag ccgctgctct gaagagcttc 240
cgcgccttcc	ccctggctct	gtccgttttc ctctcagct ctcgctggtt tgttcttggg 300
ttgtttttct	tttccacctg	ccccatgcct tttggttggg gaccccagac tctgtgatcc 360
cccagggctc	atggtgctgc	tccatccgcc cccctcccc tgtgtttacg cgccccatcc 420
tgtgtgtccc	agccttttga	gcagaaactg ccaggcagga cctgctgggc cgtgcggggc 480
accctcggcc	tcaccctgca	gtgtctgtgg cactcactgc ttttctaagg ctcgccgtga 540
gc		542

<210> 496
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 496		
gagagggtatt	atcgagacat	tgcaaagatg gcatccatca gcgaccagga catggatgcc 60
tacctggtgg	agcagtcccg	cctccacgcc agcgacttca gcgtcctgag tgcgctcaac 120
gagctgtatt	tctatgtcac	caagtaccgc caggagattc tcacggctct ggaccgagat 180
gcctcttgtc	ggaagcataa	gttgcggcag aaactggaac agatcatcag cctcgtgtcc 240
agcgacagct	aagggtggtg	aatcggtgag gagggggcctt ctcagtcctg tgccgtcctc 300
ccatccaggg	gagtggctgg	ctcaagcctg ggtccccggg ctgagccctg gattgggtat 360
cgtggggcag	gtcaccctgg	ccacgatgcc cccggcacac ccaggccccc ttcattagtg 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

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taagttctca tccaacattt ctcttgcca tccattctcc atctttaag gcaatcacca	60
ttgccagttt cttctgtatc cttctggaaa tacaatatat tacataaatg acagcattct	120
atattctctc ttctatatct tacctatttc tgtgaataat ttattttgga cagcatttta	180
tgtatgaata ttcacaaatg tgcttcctta tttcagaggc tgaactaata aaaattttgt	240
ttattttnnn nttgaggcaa tattttttata tgggtacccta atctttaata cttaacctgc	300
cagactttaa ccgtaacaca ataatgtatt gccaaatagc accattcttc ttctctcact	360
ctcttgccat gggggctctt aaaaaaaaaa gtatacatct aagggtgtaca acatgctgt	419

<210> 498
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 498	
accagtttac ctaggccttg gactgccaaa tagctacaca actgcttaag ctggcctata	60
aggacagacc agagacaaag caagaagatc attggtccag actgagaaga aagttgccag	120
agggatgtct ccactaaggc ctttgagcag ggattaatgc tgtcaccacc ttggtggaga	180
acaagaaagc tcagctggtg gtgactgcac gtgacaatgg atctcataga gctagctgtc	240
ttcctgcctg ccctgcatca taaaatacaa agggaagaga agactgggat gtctagtcca	300
caggaagact tgcaccactg tcgccttcac acagattaac ttggcagaca aaggagcttt	360
ggctaagctg gtggaagcca tcagaaccaa tgacaatgac agacaggatg agatccactg	420
tcactagggg ggcaatatcc tgggtccaaa atctctggct ctcttgcca agctgga	477

<210> 499
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 499	
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gaaggggcta cagctcacgc atcgtgggtg gaaacatgtc cttgctctcg cagtggccct	120
ggcaggccag ccttcagttc cagggctacc acctgtgcgg gggctctgtc atcacgcccc	180
tgtggatcat cactgtgca cactgtgttt atgacttgta cctccccaag tcatggacca	240
tccaggtggg tctagtttcc ctgttggaaca 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

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tgcttacggt gaaaaatctt taagtctttg tccccgttct ctaacttcct tacgttttcg	180
tttatttagc tcnatcccca ctatctactn gaatttctca tatttaaacc aagatgggag	240
actaggtcat taggaaaata ttaccgtcta caattttctt atactttgat ctgtctttta	300
tttgattgta agttgctgat ggacagtgat cattagaaac tgaattttgt ataatactag	360
ttttatatga aactagatnt ttattgcgct cagggttatgt tccttttacc tccttcctta	420
ataaagagac cacttgaaat aannanannn nttccaagta ctgtctgcac cttatcccac	480
ctctttccca tttatgagat agtgcaaaac ctagcacag 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 cttttactaa agtatcaatg atgacttgggt tgtttaaaca	180
gctgacattt gggcaatttg agtatgtcaa actcaataat actgggtttc atttgcaaga	240
tccacttaaa acttaaggag gccaaaaaac atcatttaaa ataccctata aattataatc	300
atacatatga tacgaaaaat atcctacttc ag	332

<210> 502

<211> 375

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<212> DNA
 <213> Homo sapiens

<400> 502
 agggtaactt ccagtgtcac aatgagcagt tctgtaagtg ggtgcctctc agcacatttc 60
 tatgaatata ttatgtagat aggctgtatt gatTTTtggtg gcattgacac cttcttaggc 120
 aattagttga agaaaactgc aaaatatTTT cttatgtaat agctgtatag agcaatagca 180
 atcaaagcat gagaaggcac taacgctggg atgaaagatg agattcagag gtgactgaga 240
 atcatgtgag tgatggctgt atTTTTgtg taaaatatat gtgtgaaaat gaactaagag 300
 tgagttactc agcactctca agaattatgc agattctgca TTTTcttat 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
 TTTcttctt tctcttttcc ctacctctg ctaaccaac cagagatccc cttccttgct 120
 gagaggggtg ggggcaggag gagatttggc agtgcctgca ggttgcctgg ccagggtggag 180
 agggggaaag aggaagggca ccgtgggtgt aagatgcctt tctcctccac ccatcgaaac 240
 cagccacccc ttccctgtgc caccaagaca gcTTTTcca gtggccatcc taaggggaaac 300
 tcccaaatgg gtgttgctgg tggacacaga tgctcccccc aatggaagcc ccaagctctg 360
 aggtatgcgg gtagaggctt tggatagggt ttcttctgct cccctctttt atagatctag 420
 gctgcttggc tgctgtctt tctaggcagt ccccttagag gaaaaatg 468

<210> 504
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 504
 accccaccac 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 tcaacttcca 240
 taaatgctac gaatattaaa cacttcaaaa actgcacctc catcagtggc gatctccaca 300
 tcctgccggg ggcatttagg ggtgactcct tcacacatac tcctcctctg gatccacagg 360
 aactggatat tctgaaaacc gtaaaggaaa tcacaggttt gagctgaatt atcacatgaa 420

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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 ctttgccctc ctagggagca ggggggccta	120
gctttgggat cgtcnccta gcctcagaaa taattgttca agaaataaca tttctcacac	180
aaaggataaa tgtttgaggg gatggatacc ccattctcca 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
gtgcatcctc ctgccaacac acacacacac acacctctca cacatgcacg cttacacaca	120
cacacacaca cacacacaca cacacacata cacacacaca cacacacgct ctctctctct	180
ctctctctct ctctctgtca gtgtgttatac ggtgtggagc ggaggccgcg gaggctcctc	240
ggtccttcag caccctcgg cccgacgcac ccacgccccct cccccccga gagccgaacg	300
ctccccgcac cgcccccggt cccttccctc ggccgggagc gacttctgca gctcgttctt	360
ccgaatcgca ccagcaatgn cggccagccg tagagggagg aagagcccgg ggagcccag	420
catagcgtaa acggctctct gaccttaatt tcattctgca tggcgaatct ctgccgtctc	480
tctgaacgca gaagggctctg agactggccg tctcc	515

<210> 507
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 507 ttcagtttat actcaaagcc ctgcagtttc ctgacagcac agagcacacc tgtcacgcga	60
gcaggatgaa gcccagaggc tgcctggtga agtgggaggc gcgctggaaa atccacgtag	120

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ctttgttccc tccacgggga gcgtgcaagg ccctctcgag cactacggga gcctcgctt 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
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gagacgtttc agggcctcct tccctcaaag cgtccactgt acctccatct ggatacaatt 120
agctggctcc ccacttcctg gactgacggg aaccaccttt tccaatgacc ctgaagaaaa 180
catgcaatnt aagctgcttt aagagtaacc tacaactgag gacaaatttt ctatcaactc 240
ccagtacccc tctctgccgt ggctgatttg ttactgggtt 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
ctgaggggac tgtgaacaag ctctgcccct 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
gcgtgggttt ttgtatccag agctgttttg atacagctgc tttgagctac aggacaaagg 60
ctgacagact cactgggaag ctcccccccc actcagggga cccactccc ctcacacacc 120
cccccccaca aggaaccctc aggccaccct ccacgaggtg tgactaacta tgcaataatc 180
caccacaggt gcagccccag ggctgctgga ggcgggtggca gactagagtt tagatgcccc 240
gagcccaggc agctatttca gcctcctgtt tgggtggggtg gcacctgttt cccgggcaat 300
ttaacaatgt ctgaaaaggg actgtgagta atggctgtca cttgtcgggg gcccaagtgg 360
ggtgctctgg tctgaccgat gtgtctccca gaactattct gggggcccga caggtgggcc 420

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 tgggaggaaa atgtttacat ttttaaaggc acactggtat ttatatattca 470

<210> 511
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 511
 gaaaatgaat tccatgttct tgaaggaaag 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 gcggtggtgg ccgtgaagtc atcaccatct 120
 actcctgagc ccagtgtcat cttgtggcct ggagtcgagg tcttggccag gacataacaa 180
 gctgtggtct ggggtaacag cctcttccca gcacccacct gccagccctg cttgcctggc 240
 cctgtcctgg acccagcttt gctaggtctc cttggaaacc aggcctgggc ctcaaaatgg 300
 agatggatcc caggtcttgt gggaccctgg gatgtttggg gactttacta tctagcacc 360
 cagtaggcct gtcctggcca gagaagactg gtaggggccc 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 cttcaccagc aagaagtcc gccggcgacc acatgagctc 120
 ctacagaaac tcacagccaa atggcagagg cagggtcgct gagtccctca ggtcctgggc 180
 agccttcata tttgccattg tgtccggggc accaggagcc ccaccaaccc caaaccatgc 240
 ggagaattag agttcagctc agctgggcat ggagttaaga tccctcacag gaccagaag 300
 ctcacaaaaa actatttctt cagcccctt tctggcccag accctgtggg catggagatg 360
 gacagacctg ggcctggctc ttgagaggtc ccagtcagcc atggagagct g 411

<210> 514
 <211> 423
 <212> DNA
 <213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (110)..(111)
 <223> n is a, c, g, t or u

<400> 514
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 aattattaca gctgaaaaca aatctatgta aatcggatct tgaaagagan naagctttct 120
 ccagttttga aaggcgccat ttttaacttt gatcttgtaa tgacaaataa gaatgttgaa 180
 tcggctggct tttttctatc ctaggtaatg tggactgtgg agctctgtgc tggtcacttt 240
 caaccctgaa cctgatgcta cttattttgc agttctaagt gcaaagtcgg cctggtggat 300
 gcttcccatt ataattataa atttgcttct tcgtgaggtc acacctcaca tccccagtgt 360
 cactttaata actagtgttt ttacatggt 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 cgcggcccg caggcgacct gggtcacggc gtgcaggagc 230

<210> 516
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 516
 atgaccttcg aatgcatagg cttttaatgg tgcagacaga ggaccagtat gttttcctca 60
 atcagtgtgt tttggatatt gtcagatccc agaaagactc aaaagtagat cttatctacc 120
 agaacacaac tgcaatgaca atctatgaaa accttgcgcc cgtgaccaca tttggaaaga 180
 ccaatggtta catcgacctaa ttccaaagga ataacctttc tggagtgaac cagaccgtcg 240
 caccacagc gaaggcacat gcccgatgtc gacatgtttt atatgcta atcttaattc 300
 tttgttctgt tttgtgagaa ctaattttga gggcatgaag ctgcatatca tagatgacaa 360
 attggggctg tcgggggctg tggatgggtg gggagcaa atcatctgcatt cctgatgacc 420
 aatggg 426

<210> 517
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 517
 gagcaagttg taaattgtct cttatcggac ttaaaagggt gcctggctct tacttagttg 60

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attatctcct ggatctggaa agaaaggaag gaaaacaaag gcggaagggg aatctctata 120
gaatgtggat ttttcccaca agagactttg cagggcaatt tcaaggatat gcacggaaat 180
atattttggg gttaaatatt tttttccttg tctcataatg ttatgccaga gtcagattga 240
aaagtaaadc acaacatata ggggtcaaata aaacccatct gatgagaatg tgtggtttgt 300
agggcatgac ttcctagacc tcttaggtag gaatctgggt aagacagaat atcagactta 360
gtcctcaatt cctaattgcaa agttctgaga tccaaaatgc tccaaaatct aaaacatttt 420
ttagcaccga cataatgcca caagtgga 448

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<210> 518
<211> 148
<212> DNA
<213> Homo sapiens

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<400> 518
aattaacacc aggaacagca ccttgaatat tcctttttca agttcctctt cctcaggaga 60
tattcaaggt cgaaacacaa gccccaatgt ttctgtacag aaatccaatc ccatgaggat 120
tactgagagt catgccacca agggccac 148

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<210> 519
<211> 173
<212> DNA
<213> Homo sapiens

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

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<400> 519
gaaaatcaca actctaacca taatcatctg cactatatgc ctgcacatcag gtaatgtgtc 60
taaaataata agtaacattt agcatttctg accttatccc aaagtatttt aatagtatct 120
gttaatgttt taattaatgg nttttgtatt gcatctcctg gataacaaag tag 173

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<210> 520
<211> 441
<212> DNA
<213> Homo sapiens

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

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

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

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<400> 520
catgagtgtg agctgatttg caccnancan cctctgttaa gtgcctgctg tggnttttgg 60
tttgattatt ccgttaatgc tgagtctgtt tcacaaacga gattagcaga attaattatt 120
gaagatgcag tatgctttat ggttttaata acactgttaa aaactaaaca aggaagttaa 180
atatgttgat gattatcggt gactgctcac cacacagcat cctcaggcc gagtcagttg 240
gccagtgac tcccacatca caaactgccc ttcttggtc agaagaagca gaggagacc 300
ttctcatccc cagcgcgca gctgtggggc cccgtggtca cctggccaca tgggagtttg 360
catactgagt ggttcatctt 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
tttgatttct gctctggcca atccccaagc tccacgctgt cagccacccc gctctcctac 60
ctcccagagg agcaggctac actcctgttc cttttagaga gagaaatatt gcggccgggc 120
gcgggtggctc acgtctgtaa tcccagcatt ttggcaggcc aaggggttttg ccatgttcgt 180
ggggctggtc tcaaactaat tacctcagat gatccgcca cctcggcctc ccaaagtgt 240
gggattacag ccgtcctggg ccgcccggaca ccccgctgg ggccgatgcc caacagtgc 300
atcgacttga gcaacctgga gcggctggag aagtaccgga gcttcgaccg ctaccggcgc 360
cgggcagagc aggaggcgca ggccccgcac tgggtggcgga 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

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agagtgggtga ggctggctct tcccaccagt acaggaagat cattccttaa aagaaannnc	120
catatggctt ataagtgttc tttcctgtat gaagcccaag ctgtccactt ggagagacat	180
ctggccagcc ccccgttggt ccagccatcc ccagttcagg catcaganat gtggtgaaga	240
agccatccta gatgcccgag 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 ggaaagggtc gtctccgcta gcggcgggccc acaccagctc	180
accgaggggc ggacgcgcgc ggcccggctg ccggaccgta ccatcccggg cgggtggagcc	240
gccgcggagg ggcgcgcgcg agccgaaggc gcacccggga ggcccaggta gcccgggggc	300
cggtgctggg gcgcccggca ggcccggctc ccgcctcgac ccacccggag ccagccccct	360
ctgcggacac gacatcccca tggggacggt ggcgcg	396

<210> 524
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 524	
ccccacaggt gttcctctgt gagctggtcg ggcgccggg gccggggccg ggcttcgctg	60
ctccgtgcct tccacctccc tggcgggtcg gggcctcagg gtgggcctgg gaagctggaa	120
acacctttgg 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

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<400> 525
caagggcacg aggcagtacc tttgctccat gcctttgctt ggactagtcc taccaccagc 60
aattcctgca tttctgtgtt tggcaagttt ctgctcagcc tccaaagcct taaccaagtg 120
tcaccttttc tctgcagcat tttctgccac cctccccatt tcttccaata gaaccagggg 180
tcttttactt gggatccaga agcactgtgg acatattgcc atcacaacac ctttcatgtc 240
acaatggcaa ggtttgcact gtcttgagg agaggaagga agccatattc atccctgaac 300
cctcatctcc cagcactggg tgtaaaactg aaacaaaaat ggaaaacctt gatgaaattc 360
attgttggtg tggctatggg gaaacagatt ttccatttct gatagtaa at 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
gtttgttttc cagattctta aaactccaaa cttgatatta ttacagacac aaagtaa atg 120
gcacataaca agaggaagga gatcacagtt tgcaaaactt ttatgtggac cttggtactg 180
ggatcttgag atcctttgcc atggagggtgc atcttcttga gatgtttaca cagagaacag 240
actaacagca gaaaagatat caggggttaca 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

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<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 ttcgccccct ganttnntnga ngcgactcct 60
 ttcgcatggg atctacaaaa ccgaactgcc ttaaagacct ctttcacacg gacgtgaagt 120
 cacagaactg acaaaatccc atcctgtcaa agtgcacggg tctttgaaat ctaacacaaa 180
 aagccataga aagattctct aaacaccctg tactaagagg aacacggaca gggcactgcg 240
 ttctgaagta gaggccaggg cactggccct tagacacgtc tcgctgtcac cgggctaaca 300
 acattggcaa gggcggcggc agcagcactg atatttgag cccccaaggg ctctggcgaa 360
 acccctctta ttactctgta tcctgcctgc ttccaagatg aacctgttgc tgggaaagaa 420
 caggctaaat tagaaaaggg agtattttgt caaagttgaa ggtgagtgat agcctgcccg 480
 cctcaaatag gatggg 496

<210> 529
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 529
 agcgcagtg cgaggcgagt gtggaaggac tcctgaacca gctcgtcctg gagcacctgc 60
 agctggcgcc tctgcagtg gatgtgctgg tggacggaca gccatgtgac cgcgaggctg 120
 tggcggcctg ccaggtgggc gaccccgctg gcctggaggt gcggctgacc aaccggagcc 180
 cgcgacgct 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
 tacttccgtc cctctttctg cagggccaga ggtgaccctg cctg 524

<210> 530
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 530
 aggtcaatct cgtattctct atgtgatatt gctgacaaag tcaaagtaag gaaagacata 60
 tcaaggaag gcaatggaag caccttttct ttatagtaca ttcacctacc ttaacagacc 120
 aagataacat aggagagaaa ctggggctta agtccttgat agagcttctg ggggcacagt 180

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agttataggg ccaggtcaga aaatgtcctc acacactaag aaggcatttt aaaatcagaa	240
aagacagtca cactcacttt ggtcaccaag tcatttagcc atcctgtctg gaaagcatgt	300
tttcctctgg ggtcttcctc tggggatatct tgggaaaggg tagagttttg aggagctaga	360
gaagagaaag aggtcatgag ggagattagt cctttctgaa tagcctagga aacccctcac	420
caaatagatg cctacacttt cttaaatacga 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
aagggttgtc tctctccttt ctgttggggg agggggatgg gggacttttg ttggtggctc	180
ccacccatat atccctcctt taccatagta ctcccaccca cttccatcac ccatccaata	240
aaatgcagcc agg	253

<210> 532
 <211> 567
 <212> DNA
 <213> Homo sapiens

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gggtgggtaag	actaaatctg	taagctcttt	gaaacaactt	tctcttgtaa	acgtttcagt	360
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<400> 542

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25

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Pro Glu Ala Ala Ala Ala Gln Gly His Pro Asp Gly Pro Cys Ala Pro
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Arg Thr Ser Pro Glu Gln Glu Leu Pro Ala 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
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

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Gly Pro Gly₁₁₅ Asn Ala Leu His Cys₁₂₀ Lys Ile Pro Phe Leu₁₂₅ Arg Gly Pro
 Glu Gly₁₃₀ Asp Ala Asn Val Ser₁₃₅ Val Gly Lys Gly Thr₁₄₀ Leu Glu Arg Asn
 Asn Thr Pro Val Val Gly₁₅₀ Trp Val Asn Met Ser₁₅₅ Gln Ser Thr Val Val₁₆₀
 Leu Ala Thr Asp Gly₁₆₅ Ile Thr Ser Val Leu₁₇₀ Pro Gly Ser Val Ala Thr₁₇₅
 Val Ala Thr Gln Glu Asp Glu Gln Gly₁₈₅ Asp Glu Asn Lys Ala Arg Gly₁₉₀
 Asn Trp Ser₁₉₅ Ser Lys Leu Asp Phe₂₀₀ Ile Leu Ser Met Val₂₀₅ Gly Tyr Ala
 Val Gly₂₁₀ Leu Gly Asn Val Trp Arg Phe Pro Tyr Leu₂₂₀ Ala Phe Gln Asn
 Gly Gly Gly Ala Phe Leu₂₃₀ Ile Pro Tyr Leu Met₂₃₅ Met Leu Ala Leu Ala₂₄₀
 Gly Leu Pro Ile Phe₂₄₅ Phe Leu Glu Val Ser₂₅₀ Leu Gly Gln Phe Ala Ser₂₅₅
 Gln Gly Pro Val₂₆₀ Ser Val Trp Lys Ala₂₆₅ Ile Pro Ala Leu Gln Gly Cys₂₇₀
 Gly Ile Ala Met Leu Ile Ile Ser₂₈₀ Val Leu Ile Ala Ile Tyr Tyr Asn₂₈₅
 Val Ile Ile Cys Tyr Thr Leu₂₉₅ Phe Tyr Leu Phe Ala Ser Phe Val Ser₃₀₀
 Val Leu Pro Trp Gly Ser₃₁₀ Cys Asn Asn Pro Trp₃₁₅ Asn Thr Pro Glu Cys₃₂₀
 Lys Asp Lys Thr Lys₃₂₅ Leu Leu Leu Asp Ser₃₃₀ Cys Val Ile Ser Asp His₃₃₅
 Pro Lys Ile Gln Ile Lys Asn Ser Thr₃₄₅ Phe Cys Met Thr Ala Tyr Pro₃₅₀
 Asn Val Thr Met Val Asn Phe Thr Ser Gln Ala Asn Lys₃₆₅ Thr Phe Val₃₇₀
 Ser Gly Ser Glu Glu Tyr Phe₃₇₅ Lys Tyr Phe Val Leu₃₈₀ Lys Ile Ser Ala

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Gly Ile Glu Tyr Pro Gly Glu Ile Arg Trp Pro Leu Ala Leu Cys Leu
385 390 395 400

Phe Leu Ala Trp Val Ile Val Tyr Ala Ser Leu Ala Lys Gly Ile Lys
405 410 415

Thr Ser Gly Lys Val Val Tyr Phe Thr Ala Thr Phe Pro Tyr Val Val
420 425 430

Leu Val Ile Leu Leu Ile Arg Gly Val Thr Leu Pro Gly Ala Gly Ala
435 440 445

Gly Ile Trp Tyr Phe Ile Thr Pro Lys Trp Glu Lys Leu Thr Asp Ala
450 455 460

Thr Val Trp Lys Asp Ala Ala Thr Gln Ile Phe Phe Ser Leu Ser Ala
465 470 475 480

Ala Trp Gly Gly Leu Ile Thr Leu Ser Ser Tyr Asn Lys Phe His Asn
485 490 495

Asn Cys Tyr Arg Asp Thr Leu Ile Val Thr Cys Thr Asn Ser Ala Thr
500 505 510

Ser Ile Phe Ala Gly Phe Val Ile Phe Ser Val Ile Gly Phe Met Ala
515 520 525

Asn Glu Arg Lys Val Asn Ile Glu Asn Val Ala Asp Gln Gly Pro Gly
530 535 540

Ile Ala Phe Val Val Tyr Pro Glu Ala Leu Thr Arg Leu Pro Leu Ser
545 550 555 560

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

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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

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ggatttgcaa gttgtgtagt gtgc 24

<210> 548
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 548
aagcagatgg tcatcttcca g 21

<210> 549
<211> 2426
<212> DNA
<213> Homo sapiens

<400> 549
ctctttcaac tcaagagctc agtcctgtgt ctctcatgga ggcgtctcta accaggaggc 60
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tactctttaa agacagggcat tttactttgca gcaaaataat aggaaggaga ttcgcttgct	120
ttgcacagag gctgagccac aggagaaagc aaagccaatg tgattttattg aatgaaagca	180
ctggacaatt accaacaact tgttcctctg ctgcctcgaa cagcataaac tggaattgtc	240
gtgtgaaaat gacgcaacaa atgcaaaatt tacatctctg tcagtcaaaa aaacatagtg	300
ctccctcatc tcccaacgca gccaaacgcc tgtacaggaa cctctctgag aaactgaaag	360
ggagccactc ttccttcgat gaggcctatt ttaggacaag aactgatcgg ctgagtctca	420
ggaagacctc ggtgaatttc cagggcaatg aagccatgtt tgaggcagtc gaacagcagg	480
acatggatgc tgtgcagatc ctctgtatc agtacacacc agaagaactt gacctcaaca	540
cacctaacag cgagggcttg acaccctgg atattgccat catgaccaac aatgtgcccc	600
ttgcaaggat tcttctgagg acagggggccc gagaaagtcc acactttgtc agcctggaaa	660
gccgagcaat gcacctcaac aactgggtcc aggaagccca ggagaggggtg agtgaactgt	720
ctgcccagggt ggagaatgaa ggattcactc tggacaacac agagaaagag aagcagctga	780
aagcttggga gtggaggtat cggctctaca gacgcatgaa aacaggcttt gagcatgcca	840
gagcccctga gatgccaacc aatgtctgtc tcatggtaac cagcagcaca tctctactg	900
tcagcttcca agagcctctt agcgtcaatg cagctgtagt aaccagggtat aaagtggaa	960
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ctctgagatg cacaatcaca ggacttaca tgggccaaca gtattttgtt caagtctcgg	1080
cttacaatat gaaaggatgg ggacctgtc agaccacgac accggcatgt gcctctcctt	1140
ctaactggaa agactatgac gacagagagc ccagacacaa gggacagagt gaagttttgg	1200
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aagatataag gtggctgagg caaagcatac caatatcctc atcctcatcc acagtgtctgc	1560
aaactcggca gaagatgtc gcagcaacag cacagctaca gaatttactt gggacacaca	1620
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ccatcagggg ggtggagatg ctttattcat tttttaatgg caaatggatg cagatctcaa	1740
agctgcaaag ccagagaaaag tctctatcaa cacctgagga gccaacagct ttagacattc	1800
tactgataac catccaggat attctatcct atcacaaaag gagtcatcag cgtctctttc	1860
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ttacccaaaa gttgccaac attctctgcc acgtgaagat ccgtgaaaac aataatattt	1980
ctagagagga atgggaatgg atccaaaagc tttctggctc tgaatctatg gaaagtgtgg	2040
atcatacttc tgactgcccc atgcaattgt tcttctacga gctccagatg gcagtgaag	2100

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ctctccttca gcagatcaat atacctctac accaggcaag gaacttccgc ctctacacac 2160
 aggaggtggt ggaaatgggt cacaatgtgt cctttcttct cctgctccct gcctcagacg 2220
 acgtctgtac agccccagga cagaataatc cttacacccc acactcaggg tttcttaacc 2280
 tccctcttca gatgtttgaa cttggtatag tagcttggtt cacctagaaa tattaacca 2340
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 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
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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

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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 Asn Leu Gln Thr Leu Arg Cys Thr Ile Thr Gly
 325 330 335
 Leu Thr Met Gly Gln Gln Tyr Phe Val Gln Val Ser Ala Tyr Asn Met
 340 345 350
 Lys Gly Trp Gly Pro Ala Gln Thr Thr Thr Pro Ala Cys Ala Ser Pro
 355 360 365
 Ser Asn Trp Lys Asp Tyr Asp Asp Arg Glu Pro Arg His Lys Gly Gln
 370 375 380
 Ser Glu Val Leu Glu Gly Leu Leu Gln Gln Val Arg Ala Leu His Gln
 385 390 395 400
 His Tyr Ser Cys Arg Glu Ser Thr Lys Leu Gln Thr Thr Gly Arg Lys
 405 410 415
 Gln Ser Val Ser Arg Ser Leu Lys His Leu Phe His Ser Ser Asn Lys
 420 425 430
 Phe Val Lys Thr Leu Lys Arg Gly Leu Tyr Ile Ala Val Ile Phe Tyr
 435 440 445
 Tyr Lys Asp Asn Ile Leu Val Thr Asn Glu Asp Gln Val Pro Ile Val
 450 455 460

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Glu Ile Asp Asp Ser His Thr Ser Ser Ile Thr Gln Asp Phe Leu Trp
 465 470 475 480
 Phe Thr Lys Leu Ser Cys Met Trp Glu Asp Ile Arg Trp Leu Arg Gln
 485 490 495
 Ser Ile Pro Ile Ser Ser Ser Ser Ser Thr Val Leu Gln Thr Arg Gln
 500 505 510
 Lys Met Leu Ala Ala Thr Ala Gln Leu Gln Asn Leu Leu Gly Thr His
 515 520 525
 Asn Leu Gly Arg Val Tyr Tyr Glu Pro Ile Lys Asp Arg His Gly Asn
 530 535 540
 Ile Leu Ile Val Thr Ile Arg Glu Val Glu Met Leu Tyr Ser Phe Phe
 545 550 555 560
 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

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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
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 ttctccgcca ggcccggcgg gcgggagcgg gggcgaggga gcaggagcgg ccagtgcctc 180
 cgacaccccc ggcccggcac ccccgcccc gcatccccc cgcgcccgcc gcgcgcctca 240
 aggccgcccc ctccccgcag gtggacgcgg ccatggggcg aggggtgcgc gtgctgctgc 300
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 gtcagcagcc gcctcctccc ccgcggaccg aggcggcgcc ggcggccgga cagcccgtgg 420
 agagcttccc gctggacttc acggccgtgg agggtaacat ggacagcttc atggcgcaag 480
 tcaagagcct ggcgcagtcc ctgtaccct gctccgcgca gcagctcaac gaggacctgc 540
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 gggactggcc gcgcactcgc acaggcacag ggatcctgtc ctacagccg gaggagaacc 780
 cctactggtg gaacgcaaac atggtcttca tcccctactg ctccagtgat gtttgagcgc 840
 gggcttcatc caagtctgag aagaacgagt acgccttcat gggcgccctc atcatccagg 900

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aggtggtgcg ggagcttctg ggcagagggc tgagcggggc caaggtgctg ctgctggccg 960
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cactgcactg ctgggacagg agcctccatg acagccacaa ggccagcaag acccccctca 1560
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
a 2281

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<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
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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

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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

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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

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<210> 556

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 556

tagcttccgt tgctcagcat c

21

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<210> 557
 <211> 522
 <212> DNA
 <213> Homo sapiens

<400> 557
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 attttgagct ctgcatctta acaagatgat ctgaacacct ctcctttgta tcaataaata 180
 gccctgttat tctgaagtga gaggaccaag tatagtaaaa tgctgacatc taaaactaaa 240
 taaatagaaa acaccaggcc agaactatag tcatactcac acaaaggag aaatttaaac 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
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 tattttctcag gatgaccctg cgagacaggc cagggtcatt agaccaatt tggttctcag 120
 caaatatgtg tttattcctg catgctggtg ccacaggctg gtttcttggg tgcaatgaat 180
 agctgcaggt ttattagggt gtctttttag atggatgtat gtttcccgat gtctatagaa 240
 cactccggac cccggagagt gaagactctg cctgtcggac ttgctttgag aagatccttc 300
 tccacctccc catggcagaa gttgcttcac agaggggaac agttttatgg atgtggctga 360

342-51 PCT ST25

gaccttaaac ttgaggcaac ccatctgagg tggcatccag aggagactgg ctggccccctc	420
cttcaccttg gatgtagtgc tgtttctagg atctcttttc aatcagcaaa acaggggatg	480
ttccaagagg gtgtggattc cctgccatcc cacatgggtca agtggagggg acgggaaaaa	540
gctatgaagg gtttgtgacc acacagactc tcctggcccc ctgtcctttt ggaaagaaga	600
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 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

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<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

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 tgaataacaa tccatcctac cttcaagggg ttaggaagct aactacaggt aattgctatc 1140

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<210> 564
 <211> 24
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

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<210> 565
 <211> 23
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 565	
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	23

<210> 566
 <211> 1187

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<212> DNA
<213> Homo sapiens

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ttaattagtt aataaaatta accccatgtt taaaaaaaaa aaaaaaa 1187

<210> 567
<211> 155
<212> PRT
<213> Homo sapiens

<400> 567
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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

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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
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agaagaaggt ccttggagag aagactgaga atccaaagaa gttcaagatc aactatacgg 360
tggcgaacga ggccacgctg ctcgatactg actacgacaa tttcctgttt ctctgcctac 420

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aggacaccac caccatc cagagcatga tgtgccagta cctggccaga gtcctggtgg 480
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<210> 571
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 571

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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
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<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
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aataagattt ctacattgta tcaataggta	tatcttgatt atgatattgc aagatggtac	3060

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tattcaagga aactgggtag aggctacatg agactcccct gtattatttc ctataactcc	3120
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<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 tcagagtgga c 21

<210> 577
 <211> 484
 <212> DNA
 <213> Homo sapiens

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 aacaggacat ctcaacagtc tcaggttcga tcagtgggtc ttttggcact ttgaaccttg 240
 accacagga ccaagaagtg gcaatgagga cacctgcagg aggggctagc ctgactccca 300
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 cccagaagca tatcccagat gagtgggtaca ttatataagg atttttttta agttgaaaac 420
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 caaa 484

<210> 578
 <211> 21
 <212> DNA
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<400> 584

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Ala Ala Ala Ala Asn Gln Cys Arg Asn Leu Met Ala His Pro Ala Pro
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Leu Ala Pro Gly Ala Ala Ser Ala Tyr Ser Ser Ala Pro Gly Glu Ala
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Pro Pro Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
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Gln Ser Ser Ser Gly Pro Ala Ala Leu Pro Tyr Gly Tyr Phe Gly Ser
165 170 175

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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

260 342-51 PCT ST25 270
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342-51 PCT ST25

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<210> 588
 <211> 577
 <212> PRT
 <213> Homo sapiens

<400> 588

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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

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
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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

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

[illegible]

342-51 PCT ST25

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 tggagagata ttttaagaatt taatattttg atattagatt gtttcccaga ttttaatttt 1980
 ggggttggct caaactagtg aaaactatga ctcaatggcc aattgcttta tcaaatttga 2040

342-51 PCT ST25

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gaacaaagct	ctataatfff	taccaagcac	ttattattaa	tacttcttat	aagtagtaag	2220
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gataatttct	gagcacttga	agtttcttca	aatgtgcaag	actgtgtgtc	ttcctattag	4020
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342-51 PCT ST25

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 <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
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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

342-51 PCT ST25

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
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<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

<400> 595
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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
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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

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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
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<210> 597
<211> 21
<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: oligonucleotide

<400> 597

caccttgacg ccaggaaaga c

21

<210> 598

<211> 21

<212> DNA

<213> artificial

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<223> Description of artificial sequence: oligonucleotide

<400> 598

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<210> 599

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 599

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aatgagtcct ccaagcagaa ggaatccaat accagatgaa aatccagatc tccacgagga	240
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atcctctttg agcgaaacca gccttctgcc tggctggccc tggatcaaac cctgggaaga	720
ggccgatttg gcggacagaa cggaagaaaa gacctaaagg tagaatctca tgatgtcgag	780
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ggatcgaccc ctgagccttc atctgcagag tcctgtgcac cagctcagag gacaggacta	900
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gccccaccg accccgaagt ggccattccc tggaggtggg gaaactcgcc tgtagatcaa	1140
tgcccacgca cttggcggac aggaaatcac gaattggcca ctaactggat cttggatctg	1200
agaaaaaaat tccagcgtca gagggaaact tcggagattt gccagagca taaggaacgt	1260

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actccttccc tcagtgatgg atcctcacat ctgggggaaa tcatagacaa tttcttttgt 1320
 agggcgaact ctgctataca gtttatgatg tcagagtga tactttcttt gagttgcagt 1380
 cagaaactgt agatttttaa aaatttaaaa ttcattattc tctgtcagta ttccaaagtg 1440
 tatacagaaa gctattgcac tggttcaggag atggcgctta acattttgga aattcaaggt 1500
 gatgaatgtc cagataagac tatctctcct ggtacaaagt ttgacaatgc tgaacatttt 1560
 taaaggttct ttttgatata caaagtgcac caatgagtgc tttttaattc ttacaataat 1620
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 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 gacctaagca 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
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 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 tgcccctggg 420

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caccggggcc	ctgctgcca	gtctggtgca	cgtgggcagt	cggccataca	ccgagttccc	480
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catgggtgac	acccacactg	gcctggcgct	ggtctatgcc	aaggaacagc	tgtttgctga	600
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gccgggcgtc	gtgtgggtcc	gtgggtgata	attgagagcg	tcagaccag	gactgttcag	1860
ggaggagccc	cggtcagact	cccacgtgtg	aagaccgggc	ccaagtggc	aagggtggc	1920
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ccagggggccg	cagggacgac	actctccagg	gaggccccag	caaccacacc	atcttcttgc	2340
tgtgagaggt	ctcaccgg	gctacctcct	gtcactactc	actgccctgg	ggtccgtggg	2400
caagttgccc	aggggtgggg	tgccctagcca	ggtgcagtcc	ccgccccgcc	tagtcctcgg	2460

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cgtcacgcaa tgctcacctc gcctcttccc cactaacatc ccagacttta aaattcagta 2520
aatcagatgt acaccgaaaa aaaaaaaaaa aaa 2553

<210> 603
<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
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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

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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 ggccgcccgc ctgtccagct cctgagacct 60
 tgctgtccgc cggctctgcc tctgcgcgcc tcacgctcct cagccctgga ccggggacaa 120
 gtaaccctcg gtgacaagac caaagtgcac tgctgcccac acagttccta cctttctggc 180
 ttcaattctt cagaagagtt tgccgtcctt tggggagaac gtgatttttg ttatctcagc 240
 ccactgactt cattgatctc taatcttttt taattccttg ggccaacttt gttcgtgccc 300
 ccacactgta gccagaagcc cggtggcgag ctctggcacc tgcaaaccac cccgtggaac 360
 gagtgtttcc tctggctgag ggttggagag gaggtgtggt ctacagaggc ggcccgtagc 420
 ctcacagcca ggcctggttg tgaggtcacc atgtccacca aggtgcccac ctatctgaag 480
 cgtggcagtc gcaagggcaa gaaggagaag cttcgggacc tgctgtcctc ggacatgac 540
 agcccaccgc tgggggactt ccgccacacc attcatattg gcagtggcgg cggcagtgac 600
 atgtttggcg acatctcctt cctgcagggc aagttccacc tcctgccggg gaccatggtg 660
 gaggggcctg aagaagatgg caccttcgac ctcccccttc agttcacccg caccgccacc 720
 gtgtgtgggc gggagctccc ggacggccca tccccctctg tcaagaacgc catctccctc 780
 ccggttatcg gtggaccca ggctctcacc ctgcccacag cccaggctcc acccaagccc 840
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 tggaggattc cagagactgg ctcccccaac agtggactga ccccgagtc aggggccgag 960
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 agcatcttgg ggcacctgga ccccatcaca atactccttc ttccttcagg tccctgggtg 1380
 aaggctttgc tgaaaccgac cccctttttc acgtcccttc tgcctctgcc ccgttgatg 1440
 ccctgactgg gggcagggga agagacaggg cacagctggc cacagggctc agccactgag 1500

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caggctgttc cgggcctttg gctttgcatc ctggacgggg agtgtcctgt cagggaccag 1560
 atgtgtcctg cctcatccct agctccaatc ccttccccac gtgaccgggg attctggttg 1620
 caataaaaca tgctgctgct ggtggcggag ctccctgtcc ctttgcccca ggtttcctcc 1680
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 gaatgcaaca ggagcaaacc aagtgttgct gtgacattga ttcagatgtt tggcaagagg 1860
 tggctgagca ctgggggtggg cttggcactg tgccaagcct ggggccaatc cctgcccagt 1920
 cagctggggg ctggtggggg acaccaaga ataaaagaat aaccacaaag tgtgcaaggg 1980
 aaaaaaaaaa 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

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

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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 atgttagaga gatgacagag tctaggttag ggagggcctg agtccttgta 60
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cacaggctac tgcgatgagg attgtctgaa ggggaacaaa ggccaagatg ttgtttgaag 180
ccgtgagact gagtgagatc atggaggaag tgaatgtaaa tagaaaaggg aagaagtctg 240
aagacggagc cctgagacac tccattgtaa actggaagat gaggaagagc cagcaaagga 300
gactgagaag gggcagccag tgaagatgga gccagggcta gagtaagagc cccttctggg 360
atgctgtgac cccaagttt gaagactgct gataaccca atctacgaag actagctatg 420
gaacttccta cactgagaca actccagtgg aactctgata attatcctaa aataaggagg 480
cttcttcagt agccctcgaa atatgttcaa atacatgatt acatttatgt ccttaatatt 540
gctattagtt tctgatgta atgtaaaagt tggggaaaaa gtggaaaagt taaagcagtg 600
caggttaatt caatgccaga gtaacttctc agagggtgta tattcagtggt gaacaatttt 660
caacagagaa atgtcaactt ctggccacaa cggcaaccag taaaatgact atttttactg 720

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tcttatctat taatgaagag gagattgcat aatatagatg aaggagcata gtatttgcag	780
gtggaacgcc tagcagggtc tgagtctcaa ctctgctgct tttactctaa ttgaccgaga	840
caagtcattt aaactaatag agcttcaatt ttctcatatc taatgtaaca taacaattca	900
cagcctttta cttttagatt atcgtgaaga tctaatacga 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	
cccagagcgc gcccgggcca tgacccccgc tgctctgtct tgcaggctcg tcgccgcggc	60
cccccgagcc cgaccgccgc cgccaccacc accagcgccc gggcgggcct cgcgcgcctc	120
gggcgcggct ccgcagtga cccaccaaga aggaagcggc ctgcagaggt gccgacatgg	180
ggcttaagat gtcctgcctg aaaggctttc aaatgtgtgt cagcagcagc agcagcagcc	240
acgacgaggc ccccgctcctg aacgacaagc acctggacgt gcccgcacatc atcatcacgc	300
ccccacccc cacgggcatg atgctgccga gggacttggg gagcacagtc tggctggatg	360
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gaaagggagc gccatggtcc tggctgttgg ggtcccaggg agaggctctc ttctggacaa	720
acacaccctc ccagccccca gggctgtgca aacacatgcc cctgccataa gcaccaacaa	780
gaacttcttg cagggtggagt ggctgttttt tataagttgt ttacagata cggaacagct	840

342-51 PCT ST25

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
 gaaccacgtt ctttgtatgg gcccaatgag ctgtcaagct gccctgtgtt catttcattt 180
 ggaattgccc cctctggttc ctctgtatac tactgcttca tctctaaaga cagctcatcc 240

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tcctccttca cccctgaatt tccagagcac ttcattctgct ccttcatcac aagtccagtt	300
ttctgccact agtctgaatt tcatgagaag atgccgattt ggttcctgtg 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 tagcccgggc cttacacatg tcacatgtgc tttttaagac ggccggggagc	60
gcctgcgagc tggatctggg ggaggatgct gcggcagggtg cttcgagag ggctccagtc	120
gttctgccac aggctgggtt 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 agggatgatc tcctctcccc aaccggggac aatattttgc tccaggctga	420
ggggatcctg cagaccacc gagccgtgct ggaaatgaag gatgggagga acagttttat	480
tggacaccaa ctgggcgggg tagtggaagt gccaaacagc aaagatcagc gggatcaagtc	540
agccagagcc attcaaatca cctactacct ccagacctat ggctctgcca cccaagacct	600
cataggggag aagtgggaga atgagttctg taagcttata aggaagctcc aggaggagca	660
tcaagaactc cagctctact ctttagcatc ctttagcctc tggagggact ttcataagac	720
cagcatcctg gccagaagca aggtcctggg gagcctcgtg ctgacctga ccacagccac	780
cctctccagc tccatgaagg actgcttgcg cagtaagccc ttcctggggc tcctgggggt	840

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gctcacagta tgcattctcca tcatcacagc agcagggatc ttcttcatca ccgatggaaa 900
gtacaactcc accctgctgg gaatcccgtt cttcgccatg ggtcatggaa ctaaaggagt 960
gtttgagctt ctgtccggat ggcggagaa caaagagaa ttgcccttca aagacaggat 1020
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<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

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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
 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

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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

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

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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

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
 cctttagttc catgacccat g 21

<210> 624
 <211> 6035
 <212> DNA
 <213> Homo sapiens

<400> 624
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 ccggggggcgc cgggggggccc gcggcgggccc gggcgggagc atgaagcggc agaacgtgcg 180
 cacgctggcg ctcatcgtgt gcaccttcac ctacctgctg gtgggcgccg cggctctcga 240
 cgcgctggag tcggagcccc agctgatcga gcggcagcgg ctggagctgc ggcagcagga 300
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caactgaaag	atacagagag	ggaagctttg	atgggggggt	cagagttcaa	aggaagaaat	5100
gatggcacct	gcactccctg	ccccagagg	caggacacag	ccagccctcc	tgtgacagca	5160

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<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
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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

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Gly Glu Arg Ile Asn Thr Leu Val Arg Tyr Leu Leu His Arg Ala Lys
130 135 140

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

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<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

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21

<210> 627
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<212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: oligonucleotide

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 <210> 628
 <211> 21
 <212> DNA
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 <220>
 <223> Description of artificial sequence: oligonucleotide

 <400> 628
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 <210> 629
 <211> 21
 <212> DNA
 <213> artificial

 <220>
 <223> Description of artificial sequence: oligonucleotide

 <400> 629
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 <210> 630
 <211> 21
 <212> DNA
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 <220>
 <223> Description of artificial sequence: siRNA

 <400> 630
 ccacagaagg uaccaguuau u 21

 <210> 631
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 <220>
 <223> Description of artificial sequence: siRNA

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 <210> 632
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 <220>
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 <400> 632
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<210> 633
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 <213> artificial

<220>
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<400> 633
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21

<210> 634
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 <212> DNA
 <213> Homo sapiens

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 aacagctaca tgcctggcta ttctcactgg tactcctctc cacaccagga cacgatgcag 780
 agaccacaga tgatgtgagt tgcccaaggg aacaccctag ggaaacgtct gaacaaggaa 840
 aagaggatcc gggacctgct tgtatctgcg aaaaggagcc aaaggagcag gcttaggaga 900
 gctcataagt gtggcaagaa gccgactagg ctcatctctc ctccctctct ctctctctcc 960
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 tcagtaattg atcttgcac tcagagagag agaaagagca tgtgtgagag agaaactggt 1140
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 gattttcccc caaccagaag aatctgcaca aacttggcag cgtttttact tgtttaatga 1320
 gtttaagaca ttacatggtg aaagagaagc attttggact cctgcatttt tatttaccat 1380
 tcccagactg acgagaaaaa gaaaattcct cacataacag cccttctcta aagaaaaagg 1440

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aaaaagtggc tgtaagatta gaacattgct acaaagggaa tgctgcatgt tttatcaaaa 1500
tgcaatgacc aggaatgatg gttgattaaa aaaaaacaaa acaaaaacca ctctttcccc 1560
accccccccc cccaaaccct gaactggaat caggaaagac ggaggaaaca atcaaaatca 1620
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gacgtttata tcaagaaaca tttctgtata tattgttgaa ttttagttgt acatatactt 1740
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<210> 635
 <211> 265
 <212> PRT
 <213> Homo sapiens

<400> 635

Met Met Thr Met Thr Thr Met Ala Asp Gly Leu Glu Gly Gln Asp Ser
1 5 10 15

Ser Lys Ser Ala Phe Met Glu Phe Gly Gln Gln Gln Gln Gln Gln His
20 25 30

Ser Pro Ala Met Ala Gly Ala His Tyr Pro Leu His Cys Leu His Ser
35 40 45

Ala Ala Ala Ala Ala Ala Ala Gly Ser His His His His His His Gln
50 55 60

His His His His Gly Ser Pro Tyr Ala Ser Gly Gly Gly Asn Ser Tyr
65 70 75 80

Asn His Arg Ser Leu Ala Ala Tyr Pro Tyr Met Ser His Ser Gln His
85 90 95

Ser Pro Tyr Leu Gln Ser Tyr His Asn Ser Ser Ala Ala Ala Gln Thr
100 105 110

Arg Gly Asp Asp Thr Asp Gln Gln Lys Thr Thr Val Ile Glu Asn Gly
115 120 125

Glu Ile Arg Phe Asn Gly Lys Gly Lys Lys Ile Arg Lys Pro Arg Thr
130 135 140

Ile Tyr Ser Ser Leu Gln Leu Gln Ala Leu Asn His Arg Phe Gln Gln
145 150 155 160

Thr Gln Tyr Leu Ala Leu Pro Glu Arg Ala Glu Leu Ala Ala Ser Leu
165 170 175

Gly Leu Thr Gln Thr Gln Val Lys Ile Trp Phe Gln Asn Lys Arg Ser
180 185 190

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Lys Phe Lys Lys Leu Leu Lys Gln Gly Ser Asn Pro His Glu Ser Asp
195 200 205

Pro Leu Gln Gly Ser Ala Ala Leu Ser Pro Arg Ser Pro Ala Leu Pro
210 215 220

Pro Val Trp Asp Val Ser Ala Ser Ala Lys Gly Val Ser Met Pro Pro
225 230 235 240

Asn Ser Tyr Met Pro Gly Tyr Ser His Trp Tyr Ser Ser Pro His Gln
245 250 255

Asp Thr Met Gln Arg Pro Gln Met Met
260 265

<210> 636
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 636
gctgtaagat tagaacattg c 21

<210> 637
<211> 22
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 637
caattcacct agtaaagggtg tc 22

<210> 638
<211> 1600
<212> DNA
<213> Homo sapiens

<400> 638
gaattccggg ctgtagagcc ttgcgcgcgc agtggggatg gaacgttgct aggcttagcg 60
ggctctggctg ctgggggccc gagcagcacg ctcggagccg ccgcgcgcca aagcgggaat 120
ctgggaggcg agcagctctg cagttaatgc acgtatttta aactcccggg cctgcggacg 180
ctatgcacag gaagcacctc caggagattc cagacctgag tagcaacgtt gccaccagct 240
tcacgtgggg atgggattcc agcaagactt ctgaactgct gtcaggcatg ggggtctccg 300
ccctggagaa agaggagccc gacagtgaga acatcccca ggaactgctc tcaaacctgg 360
gccacccgga gagccccca cggaaacggc tgaagagcaa agggagtgc aaagactttg 420
tgattgtccg caggcctaag ctaaatcgag agaactttcc aggtgtttca tgggactccc 480
ttccggatga gctgctcttg ggaatctttt cctgtctgtg cctccctgag ctgctaaagg 540

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tctctggtgt ttgtaagagg tggatatgcc tagcgtctga tgagtctcta tggcagacct 600
tagacctcac aggtaaaaat ctgcacccgg atgtgactgg tcggttgctg tctcaagggg 660
tgattgcctt ccgctgcca cgatcattta tggaccaacc attggctgaa catttcagcc 720
cttttcgtgt acagcacatg gacctatcga actcagttat agaagtgtcc accctccacg 780
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gttctggatt ctctgaattt gccctgcaga ctttgctaag cagctgttcc agactggatg 960
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ccacactaaa aacactacaa gtttttgga tcgtgccaga tggtagcctt caactgttaa 1320
aggaagccct tcctcatcta cagattaatt gctcccatth caccaccatt gccaggccaa 1380
ctattggcaa caaaaagaac caggagatat ggggcatcaa atgccgactg aacttgcaaa 1440
agcccagttg tctatgaagt atttattgca ggatggtgtc tcttcttag aacagggaaa 1500
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ccttcattct gcaagtatac tagggagcca tttgagaggg 1600

<210> 639
<211> 424
<212> PRT
<213> Homo sapiens

<400> 639

Met His Arg Lys His Leu Gln Glu Ile Pro Asp Leu Ser Ser Asn Val
1 5 10 15

Ala Thr Ser Phe Thr Trp Gly Trp Asp Ser Ser Lys Thr Ser Glu Leu
20 25 30

Leu Ser Gly Met Gly Val Ser Ala Leu Glu Lys Glu Glu Pro Asp Ser
35 40 45

Glu Asn Ile Pro Gln Glu Leu Leu Ser Asn Leu Gly His Pro Glu Ser
50 55 60

Pro Pro Arg Lys Arg Leu Lys Ser Lys Gly Ser Asp Lys Asp Phe Val
65 70 75 80

Ile Val Arg Arg Pro Lys Leu Asn Arg Glu Asn Phe Pro Gly Val Ser
85 90 95

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Trp Asp Ser Leu Pro Asp Glu Leu Leu Leu Gly Ile Phe Ser Cys Leu
100 105 110

Cys Leu Pro Glu Leu Leu Lys Val Ser Gly Val Cys Lys Arg Trp Tyr
115 120 125

Arg Leu Ala Ser Asp Glu Ser Leu Trp Gln Thr Leu Asp Leu Thr Gly
130 135 140

Lys Asn Leu His Pro Asp Val Thr Gly Arg Leu Leu Ser Gln Gly Val
145 150 155 160

Ile Ala Phe Arg Cys Pro Arg Ser Phe Met Asp Gln Pro Leu Ala Glu
165 170 175

His Phe Ser Pro Phe Arg Val Gln His Met Asp Leu Ser Asn Ser Val
180 185 190

Ile Glu Val Ser Thr Leu His Gly Ile Leu Ser Gln Cys Ser Lys Leu
195 200 205

Gln Asn Leu Ser Leu Glu Gly Leu Arg Leu Ser Asp Pro Ile Val Asn
210 215 220

Thr Leu Ala Lys Asn Ser Asn Leu Val Arg Leu Asn Leu Ser Gly Cys
225 230 235 240

Ser Gly Phe Ser Glu Phe Ala Leu Gln Thr Leu Leu Ser Ser Cys Ser
245 250 255

Arg Leu Asp Glu Leu Asn Leu Ser Trp Cys Phe Asp Phe Thr Glu Lys
260 265 270

His Val Gln Val Ala Val Ala His Val Ser Glu Thr Ile Thr Gln Leu
275 280 285

Asn Leu Ser Gly Tyr Arg Lys Asn Leu Gln Lys Ser Asp Leu Ser Thr
290 295 300

Leu Val Arg Arg Cys Pro Asn Leu Val His Leu Asp Leu Ser Asp Ser
305 310 315 320

Val Met Leu Lys Asn Asp Cys Phe Gln Glu Phe Phe Gln Leu Asn Tyr
325 330 335

Leu Gln His Leu Ser Leu Ser Arg Cys Tyr Asp Ile Ile Pro Glu Thr
340 345 350

Leu Leu Glu Leu Gly Glu Ile Pro Thr Leu Lys Thr Leu Gln Val Phe
355 360 365

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Gly Ile Val Pro Asp Gly Thr Leu Gln Leu Leu Lys Glu Ala Leu Pro
 370 375 380

His Leu Gln Ile Asn Cys Ser His Phe Thr Thr Ile Ala Arg Pro Thr
 385 390 395 400

Ile Gly Asn Lys Lys Asn Gln Glu Ile Trp Gly Ile Lys Cys Arg Leu
 405 410 415

Thr Leu Gln Lys Pro Ser Cys Leu
 420

<210> 640
 <211> 22
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

<400> 640
 gaatctccag aaatcagatc tc 22

<210> 641
 <211> 22
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

<400> 641
 gggagcaatt aatctgtaga tg 22

<210> 642
 <211> 3520
 <212> DNA
 <213> Homo sapiens

<400> 642
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 gggcggcggc ggcggcggcg gcggccggga cccagcgggc cagggtggga cggcgcggag 120
 cgggtgcggg agatgccgtg cgggactggg gccacctgag ccgcccgcct cgtccccgcc 180
 ttctgtggga aggatgtgcg cgcggatggc cggtcgcaca acagcggccc ctcgggggcc 240
 ctacggcccc tggctctgcc tcctggtggc cctcgccctg gacgtcgtga gagtggactg 300
 tggccaggct cccctggacc ctgtctacct gccggcagcc ctggagctcc tagacgcccc 360
 tgaacacttc cgtgtgcagc aggtggggcca ctaccacct gccaaactcct ctctgagctc 420
 ccgatctgag acctttctgc tcctacagcc ctggcccagg gccagccac ttctccgggc 480
 ctctaccca ccttttgcca ctacgaggt ggtccccct caggtcactg agccccacca 540
 acggccagtc ccatgggacg tgcgggccgt ttcagtggaa gcggctgtga ctccagcaga 600
 gccctacgcc cgggttctct tccacctcaa agggcaggat tggccaccag ggtctggcag 660

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acaggcctcc	accacacggg	ccgagctggc	ctacacgctt	gagcctgcag	ctgagggccc	840
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tgtggagctg	cgcccagcag	acccccgcga	gtaccaggag	gtacctctgg	acgaggctgt	960
gactctgcgg	gtgcctgaca	tgccagtgcg	gcccggccag	ctcttttagtg	ctaccctcct	1020
gcttcggcac	aacttcacag	ccagcctcct	gaccctgcgg	atcaagggtga	agaaggggct	1080
gcatgtgaca	gccgcccgcc	cagcccagcc	cacactctgg	actgccaaagc	tggaccgctt	1140
caagggctcc	aggcaccaca	ccaccctcat	cacctgccac	cgtgctgggc	tcacagagcc	1200
agattccagc	agtccccttg	aactgtctga	gttcctatgg	gtggactttg	tggaggagaa	1260
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gcagggtggca	ggcagtgtcg	ggggcaacac	aggtgtgagg	ggcaagtgtg	agcgggcaga	2640
ggaggaggcc	aggaaggagg	agaccgaagc	cagggaggag	gaggaggaag	aggaggagga	2700

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gatggtccct gcccctcagc atgtcactga gctagagctg ggcattgtacg ccctgctggg	2760
agtcttctgc gtggccatct tcatcttctt ggtcaatggt gtgggtcttcg tcctgcgcta	2820
tcagcgcaaa gaacctcccg acagtgccac tgaccccacc tccccccagc cccacaactg	2880
ggtctggctg ggcactgacc aggaggaact gagccgccag ctggaccggc agtcccctgg	2940
cccgcccaag ggggagggga gctgcccctg tgagagtggg ggaggagggg aggccctac	3000
cctggcccct ggccctcctg ggggcaccac cagctcctca agcaccctgg cccgaaagga	3060
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gtcacctgag gagcctgtag gggcccctgc tgtgcagtcc atccttgtgg caggcgagga	3180
ggacatccgc tgggtgtgtg aggacatggg gctgaaggac cctgaggagc ttcgcaacta	3240
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ttgttgatcc aagtcccctg cctggtcccc cacaaggact cccatccagg ccccctctgc	3420
cctgcccctt gtcattggacc atggtcgtga ggaagggtc atgcccctta tttatgggaa	3480
ccatttcatt ctaacagaat aaaccgagaa ggaaaccaga	3520

<210> 643
 <211> 1024
 <212> PRT
 <213> Homo sapiens

<400> 643

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

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Glu Ala Ala Val Thr Pro Ala Glu Pro Tyr Ala Arg Val Leu Phe His
130 135 140

Leu Lys Gly Gln Asp Trp Pro Pro Gly Ser Gly Ser Leu Pro Cys Ala
145 150 155 160

Arg Leu His Ala Thr His Pro Ala Gly Thr Ala His Gln Ala Cys Arg
165 170 175

Phe Gln Pro Ser Leu Gly Ala Cys Val Val Glu Leu Glu Leu Pro Ser
180 185 190

His Trp Phe Ser Gln Ala Ser Thr Thr Arg Ala Glu Leu Ala Tyr Thr
195 200 205

Leu Glu Pro Ala Ala Glu Gly Pro Gly Gly Cys Gly Ser Gly Glu Glu
210 215 220

Asn Asp Pro Gly Glu Gln Ala Leu Pro Val Gly Gly Val Glu Leu Arg
225 230 235 240

Pro Ala Asp Pro Pro Gln Tyr Gln Glu Val Pro Leu Asp Glu Ala Val
245 250 255

Thr Leu Arg Val Pro Asp Met Pro Val Arg Pro Gly Gln Leu Phe Ser
260 265 270

Ala Thr Leu Leu Leu Arg His Asn Phe Thr Ala Ser Leu Leu Thr Leu
275 280 285

Arg Ile Lys Val Lys Lys Gly Leu His Val Thr Ala Ala Arg Pro Ala
290 295 300

Gln Pro Thr Leu Trp Thr Ala Lys Leu Asp Arg Phe Lys Gly Ser Arg
305 310 315 320

His His Thr Thr Leu Ile Thr Cys His Arg Ala Gly Leu Thr Glu Pro
325 330 335

Asp Ser Ser Ser Pro Leu Glu Leu Ser Glu Phe Leu Trp Val Asp Phe
340 345 350

Val Val Glu Asn Ser Thr Gly Gly Gly Val Ala Val Thr Arg Pro Val
355 360 365

Thr Trp Gln Leu Glu Tyr Pro Gly Gln Ala Pro Glu Ala Glu Lys Asp
370 375 380

Lys Met Val Trp Glu Ile Leu Val Ser Glu Arg Asp Ile Arg Ala Leu
385 390 395 400

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Ile Pro Leu Ala Lys Ala Glu Glu Leu Val Asn Thr Ala Pro Leu Thr
405 410 415

Gly Val Pro Gln His Val Pro Val Arg Leu Val Thr Val Asp Gly Gly
420 425 430

Gly Ala Leu Val Glu Val Thr Glu His Val Gly Cys Glu Ser Ala Asn
435 440 445

Thr Gln Val Leu Gln Val Ser Glu Ala Cys Asp Ala Val Phe Val Ala
450 455 460

Gly Lys Glu Ser Arg Gly Ala Arg Gly Val Arg Val Asp Phe Trp Trp
465 470 475 480

Arg Arg Leu Arg Ala Ser Leu Arg Leu Thr Val Trp Ala Pro Leu Leu
485 490 495

Pro Leu Arg Ile Glu Leu Thr Asp Thr Thr Leu Glu Gln Val Arg Gly
500 505 510

Trp Arg Val Pro Gly Pro Ala Glu Gly Pro Ala Glu Pro Ala Ala Glu
515 520 525

Ala Ser Asp Glu Ala Glu Arg Arg Ala Arg Gly Cys His Leu Gln Tyr
530 535 540

Gln Arg Ala Gly Val Arg Phe Leu Ala Pro Phe Ala Ala His Pro Leu
545 550 555 560

Asp Gly Gly Arg Arg Leu Thr His Leu Leu Gly Pro Asp Trp Leu Leu
565 570 575

Asp Val Ser His Leu Val Ala Pro His Ala Arg Val Leu Asp Ser Arg
580 585 590

Val Ala Ser Leu Glu Gly Gly Arg Val Val Val Gly Arg Glu Pro Gly
595 600 605

Val Thr Ser Ile Glu Val Arg Ser Pro Leu Ser Asp Ser Ile Leu Gly
610 615 620

Glu Gln Ala Leu Ala Val Thr Asp Asp Lys Val Ser Val Leu Glu Leu
625 630 635 640

Arg Val Gln Pro Val Met Gly Ile Ser Leu Thr Leu Ser Arg Gly Thr
645 650 655

Ala His Pro Gly Glu Val Thr Ala Thr Cys Trp Ala Gln Ser Ala Leu
660 665 670

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Pro Ala Pro Lys Gln Glu Val Ala Leu Ser Leu Trp Leu Ser Phe Ser
675 680 685

Asp His Thr Val Ala Pro Ala Glu Leu Tyr Asp Arg Arg Asp Leu Gly
690 695 700

Leu Ser Val Ser Ala Glu Glu Pro Gly Ala Ile Leu Pro Ala Glu Glu
705 710 715 720

Gln Gly Ala Gln Leu Gly Val Val Val Ser Gly Ala Gly Ala Glu Gly
725 730 735

Leu Pro Leu His Val Ala Leu His Pro Pro Glu Pro Cys Arg Arg Gly
740 745 750

Arg His Arg Val Pro Leu Ala Ser Gly Thr Ala Trp Leu Gly Leu Pro
755 760 765

Pro Ala Ser Thr Pro Ala Pro Ala Leu Pro Ser Ser Pro Ala Trp Ser
770 775 780

Pro Pro Ala Thr Glu Ala Thr Met Gly Gly Lys Arg Gln Val Ala Gly
785 790 795 800

Ser Val Gly Gly Asn Thr Gly Val Arg Gly Lys Phe Glu Arg Ala Glu
805 810 815

Glu Glu Ala Arg Lys Glu Glu Thr Glu Ala Arg Glu Glu Glu Glu Glu
820 825 830

Glu Glu Glu Glu Met Val Pro Ala Pro Gln His Val Thr Glu Leu Glu
835 840 845

Leu Gly Met Tyr Ala Leu Leu Gly Val Phe Cys Val Ala Ile Phe Ile
850 855 860

Phe Leu Val Asn Gly Val Val Phe Val Leu Arg Tyr Gln Arg Lys Glu
865 870 875 880

Pro Pro Asp Ser Ala Thr Asp Pro Thr Ser Pro Gln Pro His Asn Trp
885 890 895

Val Trp Leu Gly Thr Asp Gln Glu Glu Leu Ser Arg Gln Leu Asp Arg
900 905 910

Gln Ser Pro Gly Pro Pro Lys Gly Glu Gly Ser Cys Pro Cys Glu Ser
915 920 925

Gly Gly Gly Gly Glu Ala Pro Thr Leu Ala Pro Gly Pro Pro Gly Gly
930 935 940

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Thr Thr Ser Ser Ser Ser Thr Leu Ala Arg Lys Glu Ala Gly Gly Arg
945 950 955 960

Arg Lys Arg Val Glu Phe Val Thr Phe Ala Pro Ala Pro Pro Ala Gln
965 970 975

Ser Pro Glu Glu Pro Val Gly Ala Pro Ala Val Gln Ser Ile Leu Val
980 985 990

Ala Gly Glu Glu Asp Ile Arg Trp Val Cys Glu Asp Met Gly Leu Lys
995 1000 1005

Asp Pro Glu Glu Leu Arg Asn Tyr Met Glu Arg Ile Arg Gly Ser
1010 1015 1020

Ser

<210> 644
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 644
gtgtcacctc cattgaggtg c

21

<210> 645
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 645
gtgtgatcag agaaggacag c

21

<210> 646
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (397)..(397)
<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

<220>
<221> misc_feature
<222> (422)..(422)
<223> n is a, c, g, t or u

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

<220>
 <221> misc_feature
 <222> (448)..(449)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (469)..(469)
 <223> n is a, c, g, t or u

<400> 646
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 ccagatacaa accagtcctc atcctcaatc attacttatt cactcaacaa atatttttga 180
 gtacttaccc tgcaccaggc actagggata taacagataa aaattaagtc tctcgcttca 240
 tgaagctttc attctgatag agggagacgg caataagcaa ataaatgggt tattccacca 300
 ccccttcaag tcttcactca aatgttcctt tttcaatgag actatataac caacgtattt 360
 aaaatttcaa ccaccatcct gcattcactg cttttcntct tgctaanggt gattaatatg 420
 tntttatttg actgaacaca angggccnna tacttggtcc aacattatnc tgggtgtgt 479

<210> 647
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

<400> 647
 aagtctctcg cttcatgaag c 21

<210> 648
 <211> 22
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

<400> 648
 aaaagcagtg aatgcaggat gg 22

<210> 649
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 <212> DNA
 <213> Homo sapiens

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<210> 650
 <211> 258
 <212> PRT
 <213> Homo sapiens

<400> 650

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 20 25 30

Phe Gln Gly Asp Ile Ser Ser Val Val Asp Glu His Phe Ser Arg Ala
 35 40 45

Leu Ser Asn Ile Lys Ser Pro Gln Glu Leu Thr Pro Ser Ser Gln Ser
 50 55 60

Glu Gly Val Met Leu Lys Asn Asp Asp Ser Met Ser Pro Asn Gln Trp
 65 70 75 80

Arg Tyr Ser Ser Pro Trp Thr Lys Pro Gln Pro Glu Val Pro Val Thr
 85 90 95

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Asn Arg Ala Ala Asn Cys Asn Leu His Val Pro Gly Pro Met Ala Val
100 105 110

Asn Gln Phe Ser Pro Ser Leu Ala Arg Arg Ala Ser Val Arg Pro Gly
115 120 125

Glu Leu Trp His Phe Ser Ser Leu Ala Gly Thr Ser Ser Leu Glu Pro
130 135 140

Gly Tyr Ser His Pro Phe Pro Ala Arg His Leu Val Pro Glu Pro Gln
145 150 155 160

Pro Asp Gly Lys Arg Glu Pro Leu Leu Ser Leu Leu Gln Gln Asp Arg
165 170 175

Cys Leu Ala Arg Pro Gln Glu Ser Ala Ala Arg Glu Asn Gly Asn Pro
180 185 190

Gly Gln Ile Ala Gly Ser Thr Gly Leu Leu Phe Asn Leu Pro Pro Gly
195 200 205

Ser Val His Tyr Lys Lys Leu Tyr Val Ser Arg Gly Ser Ala Ser Thr
210 215 220

Ser Leu Pro Asn Glu Thr Leu Ser Glu Leu Glu Thr Pro Gly Lys Tyr
225 230 235 240

Ser Leu Thr Pro Pro Asn His Trp Gly His Pro His Arg Tyr Leu Gln
245 250 255

His Leu

<210> 651
<211> 22
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> .651
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22

<210> 652
<211> 20
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

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20

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<210> 653
 <211> 2960
 <212> DNA
 <213> Homo sapiens

<400> 653
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aagtcaaaga catatttctt ttttctttgt ttgagatgga gtcttgctct gtcacccaaa	1980
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aataaagaaa tacatgactt	2960

<210> 654
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 654
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<210> 655
 <211> 22
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 655
 ctaagagctt ggactttgaa gc 22

<210> 656
 <211> 2059
 <212> DNA

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<213> Homo sapiens

<400> 656

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<210> 657
 <211> 419
 <212> PRT
 <213> Homo sapiens

<400> 657

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 Thr Ala Gln Val Thr Ile Glu Ala Gln Pro Pro Lys Val Ser Glu Gly
 35 40 45
 Lys Asp Val Leu Leu Leu Val His Asn Leu Pro Gln Asn Leu Ala Gly
 50 55 60
 Tyr Ile Trp Tyr Lys Gly Gln Met Thr Tyr Leu Tyr His Tyr Ile Thr
 65 70 75 80
 Ser Tyr Val Val Asp Gly Gln Arg Ile Ile Tyr Gly Pro Ala Tyr Ser
 85 90 95
 Gly Arg Glu Arg Val Tyr Ser Asn Ala Ser Leu Leu Ile Gln Asn Val
 100 105 110
 Thr Gln Glu Asp Ala Gly Ser Tyr Thr Leu His Ile Ile Lys Arg Arg
 115 120 125
 Asp Gly Thr Gly Gly Val Thr Gly His Phe Thr Phe Thr Leu His Leu
 130 135 140
 Glu Thr Pro Lys Pro Ser Ile Ser Ser Ser Asn Leu Asn Pro Arg Glu
 145 150 155 160
 Ala Met Glu Ala Val Ile Leu Thr Cys Asp Pro Ala Thr Pro Ala Ala
 165 170 175
 Ser Tyr Gln Trp Trp Met Asn Gly Gln Ser Leu Pro Met Thr His Arg
 180 185 190
 Leu Gln Leu Ser Lys Thr Asn Arg Thr Leu Phe Ile Phe Gly Val Thr
 195 200 205
 Lys Tyr Ile Ala Gly Pro Tyr Glu Cys Glu Ile Arg Asn Pro Val Ser
 210 215 220

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Ala Ser Arg Ser Asp Pro Val Thr Leu Asn Leu Leu Pro Lys Leu Ser
225 230 235 240

Lys Pro Tyr Ile Thr Ile Asn Asn Leu Asn Pro Arg Glu Asn Lys Asp
245 250 255

Val Leu Thr Phe Thr Cys Glu Pro Lys Ser Lys Asn Tyr Thr Tyr Ile
260 265 270

Trp Trp Leu Asn Gly Gln Ser Leu Pro Val Ser Pro Arg Val Lys Arg
275 280 285

Pro Ile Glu Asn Arg Ile Leu Ile Leu Pro Asn Val Thr Arg Asn Glu
290 295 300

Thr Gly Pro Tyr Gln Cys Glu Ile Arg Asp Arg Tyr Gly Gly Ile Arg
305 310 315 320

Ser Asp Pro Val Thr Leu Asn Val Leu Tyr Gly Pro Asp Leu Pro Ser
325 330 335

Ile Tyr Pro Ser Phe Thr Tyr Tyr Arg Ser Gly Glu Asn Leu Tyr Leu
340 345 350

Ser Cys Phe Ala Glu Ser Asn Pro Arg Ala Gln Tyr Ser Trp Thr Ile
355 360 365

Asn Gly Lys Phe Gln Leu Ser Gly Gln Lys Leu Ser Ile Pro Gln Ile
370 375 380

Thr Thr Lys His Ser Gly Leu Tyr Ala Cys Ser Val Arg Asn Ser Ala
385 390 395 400

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Ile Leu Pro

<210> 658

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: oligonucleotide

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21

<210> 659

<211> 21

<212> DNA

<213> artificial

<220>

<223> Description of artificial sequence: oligonucleotide

<400> 659

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21

<210> 660

<211> 7289

<212> DNA

<213> Homo sapiens

<400> 660

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<213> Homo sapiens

<400> 661

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20

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25

30

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35 40 45

Arg Val Asp Gln Asn Gly Ala Phe Leu Ser Phe Thr Val Lys Asn Asp
50 55 60

Lys His Ser Arg Arg Arg Arg Ser Met Asp Pro Ile Asp Pro Gln Gln
65 70 75 80

Ala Val Ser Lys Leu Phe Phe Lys Leu Ser Ala Tyr Gly Lys His Phe
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His Leu Asn Leu Thr Leu Asn Thr Asp Phe Val Ser Lys His Phe Thr
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Val Glu Tyr Trp Gly Lys Asp Gly Pro Gln Trp Lys His Asp Phe Leu
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Asp Asn Cys His Tyr Thr Gly Tyr Leu Gln Asp Gln Arg Ser Thr Thr
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Glu Asp Glu Glu Tyr Phe Ile Glu Pro Leu Lys Asn Thr Thr Glu Asp
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Ser Lys His Phe Ser Tyr Glu Asn Gly His Pro His Val Ile Tyr Lys
180 185 190

Lys Ser Ala Leu Gln Gln Arg His Leu Tyr Asp His Ser His Cys Gly
195 200 205

Val Ser Asp Phe Thr Arg Ser Gly Lys Pro Trp Trp Leu Asn Asp Thr
210 215 220

Ser Thr Val Ser Tyr Ser Leu Pro Ile Asn Asn Thr His Ile His His
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Arg Gln Lys Arg Ser Val Ser Ile Glu Arg Phe Val Glu Thr Leu Val
245 250 255

Val Ala Asp Lys Met Met Val Gly Tyr His Gly Arg Lys Asp Ile Glu
260 265 270

His Tyr Ile Leu Ser Val Met Asn Ile Val Ala Lys Leu Tyr Arg Asp
275 280 285

Ser Ser Leu Gly Asn Val Val Asn Ile Ile Val Ala Arg Leu Ile Val
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290 342-51 PCT ST25
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 305 310 315 320
 Ser Leu Asp Ser Phe Cys Lys Trp Gln Lys Ser Ile Leu Ser His Gln
 325 330 335
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 340 345 350
 Ala Val Leu Ile Thr Arg Tyr Asp Ile Cys Thr Tyr Lys Asn Lys Pro
 355 360 365
 Cys Gly Thr Leu Gly Leu Ala Ser Val Ala Gly Met Cys Glu Pro Glu
 370 375 380
 Arg Ser Cys Ser Ile Asn Glu Asp Ile Gly Leu Gly Ser Ala Phe Thr
 385 390 395 400
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 405 410 415
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 420 425 430
 Ala His Ile Thr Ala Asn Thr Asn Pro Phe Ser Trp Ser Ala Cys Ser
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 Gly Gln Val Tyr Asp Ala Asp Glu Gln Cys Arg Phe Gln Tyr Gly Ala
 485 490 495
 Thr Ser Arg Gln Cys Lys Tyr Gly Glu Val Cys Arg Glu Leu Trp Cys
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 Leu Ser Lys Ser Asn Arg Cys Val Thr Asn Ser Ile Pro Ala Ala Glu
 515 520 525
 Gly Thr Leu Cys Gln Thr Gly Asn Ile Glu Lys Gly Trp Cys Tyr Gln
 530 535 540
 Gly Asp Cys Val Pro Phe Gly Thr Trp Pro Gln Ser Ile Asp Gly Gly
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 Trp Gly Pro Trp Ser Leu Trp Gly Glu Cys Ser Arg Thr Cys Gly Gly

565 342-51 PCT ST25 575
570

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Gly Gly Lys Tyr Cys Leu Gly Glu Arg Lys Arg Tyr Arg Ser Cys Asn
595 600 605

Thr Asp Pro Cys Pro Leu Gly Ser Arg Asp Phe Arg Glu Lys Gln Cys
610 615 620

Ala Asp Phe Asp Asn Met Pro Phe Arg Gly Lys Tyr Tyr Asn Trp Lys
625 630 635 640

Pro Tyr Thr Gly Gly Gly Val Lys Pro Cys Ala Leu Asn Cys Leu Ala
645 650 655

Glu Gly Tyr Asn Phe Tyr Thr Glu Arg Ala Pro Ala Val Ile Asp Gly
660 665 670

Thr Gln Cys Asn Ala Asp Ser Leu Asp Ile Cys Ile Asn Gly Glu Cys
675 680 685

Lys His Val Gly Cys Asp Asn Ile Leu Gly Ser Asp Ala Arg Glu Asp
690 695 700

Arg Cys Arg Val Cys Gly Gly Asp Gly Ser Thr Cys Asp Ala Ile Glu
705 710 715 720

Gly Phe Phe Asn Asp Ser Leu Pro Arg Gly Gly Tyr Met Glu Val Val
725 730 735

Gln Ile Pro Arg Gly Ser Val His Ile Glu Val Arg Glu Val Ala Met
740 745 750

Ser Lys Asn Tyr Ile Ala Leu Lys Ser Glu Gly Asp Asp Tyr Tyr Ile
755 760 765

Asn Gly Ala Trp Thr Ile Asp Trp Pro Arg Lys Phe Asp Val Ala Gly
770 775 780

Thr Ala Phe His Tyr Lys Arg Pro Thr Asp Glu Pro Glu Ser Leu Glu
785 790 795 800

Ala Leu Gly Pro Thr Ser Glu Asn Leu Ile Val Met Val Leu Leu Gln
805 810 815

Glu Gln Asn Leu Gly Ile Arg Tyr Lys Phe Asn Val Pro Ile Thr Arg
820 825 830

Thr Gly Ser Gly Asp Asn Glu Val Gly Phe Thr Trp Asn His Gln Pro
Page 316

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835

840

845

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850 855 860

Val Val Cys Lys Arg Leu Asp Asp Asn Ser Ile Val Gln Asn Asn Tyr
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Cys Asp Pro Asp Ser Lys Pro Pro Glu Asn Gln Arg Ala Cys Asn Thr
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Glu Pro Cys Pro Glu Trp Phe Ile Gly Asp Trp Leu Glu Cys Ser
900 905 910

Lys Thr Cys Asp Gly Gly Met Arg Thr Arg Ala Val Leu Cys Ile Arg
915 920 925

Lys Ile Gly Pro Ser Glu Glu Glu Thr Leu Asp Tyr Ser Gly Cys Leu
930 935 940

Thr His Arg Pro Val Glu Lys Glu Pro Cys Asn Asn Gln Ser Cys Pro
945 950 955 960

Pro Gln Trp Val Ala Leu Asp Trp Ser Glu Cys Thr Pro Lys Cys Gly
965 970 975

Pro Gly Phe Lys His Arg Ile Val Leu Cys Lys Ser Ser Asp Leu Ser
980 985 990

Lys Thr Phe Pro Ala Ala Gln Cys Pro Glu Glu Ser Lys Pro Pro Val
995 1000 1005

Arg Ile Arg Cys Ser Leu Gly Arg Cys Pro Pro Pro Arg Trp Val
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Thr Gly Asp Trp Gly Gln Cys Ser Ala Gln Cys Gly Leu Gly Gln
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Gln Met Arg Thr Val Gln Cys Leu Ser Tyr Thr Gly Gln Ala Ser
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Ser Asp Cys Leu Glu Thr Val Arg Pro Pro Ser Met Gln Gln Cys
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Glu Ser Lys Cys Asp Ser Thr Pro Ile Ser Asn Thr Glu Glu Cys
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Lys Asp Val Asn Lys Val Ala Tyr Cys Pro Leu Val Leu Lys Phe
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1105

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<213> artificial

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<223> Description of artificial sequence: Oligonucleotide

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<210> 663
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<210> 664
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<213> Homo sapiens

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cagccccctcc ctgcacagag cacatcaaat ggaaggggct cctgctcaca gcattacttt 180
taaacttctg gaacttgcct accactgccc aagtcattgat tgaagcccag ccacccaaag 240
tgtccgaggg gaaggatgtt cttctacttg tccacaattt gccccagaat cttactggct 300
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 <212> PRT
 <213> Homo sapiens

<400> 665

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Thr Ala Gln Val Met Ile Glu Ala Gln Pro Pro Lys Val Ser Glu Gly
 35 40 45

Lys Asp Val Leu Leu Leu Val His Asn Leu Pro Gln Asn Leu Thr Gly
 50 55 60

Tyr Ile Trp Tyr Lys Gly Gln Ile Arg Asp Leu Tyr His Tyr Ile Thr
 65 70 75 80

Ser Tyr Val Val Asp Gly Gln Ile Ile Ile Tyr Gly Pro Ala Tyr Ser
 85 90 95

Gly Arg Glu Thr Val Tyr Ser Asn Ala Ser Leu Leu Ile Gln Asn Val
 100 105 110

Thr Arg Glu Asp Ala Gly Ser Tyr Thr Leu His Ile Ile Lys Arg Gly
 115 120 125

Asp Gly Thr Arg Gly Val Thr Gly Tyr Phe Thr Phe Thr Leu Tyr Leu
 130 135 140

Glu Thr Pro Lys Pro Ser Ile Ser Ser Ser Asn Leu Asn Pro Arg Glu
 145 150 155 160

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Ala Met Glu Thr Val Ile Leu Thr Cys Asn Pro Glu Thr Pro Asp Ala
165 170 175

Ser Tyr Leu Trp Trp Met Asn Gly Gln Ser Leu Pro Met Thr His Arg
180 185 190

Met Gln Leu Ser Glu Thr Asn Arg Thr Leu Phe Leu Phe Gly Val Thr
195 200 205

Lys Tyr Thr Ala Gly Pro Tyr Glu Cys Glu Ile Trp Asn Ser Gly Ser
210 215 220

Ala Ser Arg Ser Asp Pro Val Thr Leu Asn Leu Leu His Gly Pro Asp
225 230 235 240

Leu Pro Arg Ile Phe Pro Ser Val Thr Ser Tyr Tyr Ser Gly Glu Asn
245 250 255

Leu Asp Leu Ser Cys Phe Ala Asn Ser Asn Pro Pro Ala Gln Tyr Ser
260 265 270

Trp Thr Ile Asn Gly Lys Phe Gln Leu Ser Gly Gln Lys Leu Phe Ile
275 280 285

Pro Gln Ile Thr Pro Lys His Asn Gly Leu Tyr Ala Cys Ser Ala Arg
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<212> DNA

<213> artificial

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<210> 667

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<213> artificial

<220>

<223> Description of artificial sequence: Oligonucleotide

<400> 667

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21

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<210> 668
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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tgaagaaccg	ccgttccctt	gaaagggaa	acctggcatt	ctgtgggtgt	tcgtgctgtc	10140
ttaaataatg	gtgcatttat	tatgttcaag	ttatttcagg	attgccatat	gtgcaaacaa	10200
atcatgcaat	gcagccaagg	aatatatgtt	gttggtgttg	ttttaaaccc	attttttttt	10260
tagaattttc	attaataactg	tagttataca	ccatatgcct	cattttatca	tagcctattg	10320
tgtatgaaag	atgtttgtac	aatgaattga	tgttttagttt	gcttttagtca	tttaaaaaga	10380
tattgtacca	ggatgtgcta	ttaagagcac	gtatccatta	ttcttctcaa	ccaagaacc	10440
tgtttcctgg	accagtgacc	aaacctcata	tgtgaaatgg	caaagcaca	tgagggtcc	10500
tggttggtcc	tctcaaacct	gtgctgacca	aagattagta	accagttata	cccagtattt	10560
tgagggtttta	ttgttttttt	aataactaaa	aagaaaaaag	gaacagtgtg	aatttgtaat	10620
caagagtttg	tgaggaaaaa	cttatggttt	ttggttttgt	ttgtttttgt	aggtctgtgt	10680
atcaaatatg	acacttttct	tgcaataaag	cttatTTTgg	ggta		10724

<210> 676
 <211> 2912
 <212> PRT

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<213> Homo sapiens

<400> 676

Met Gly Arg Arg Arg Arg Leu Cys Leu Gln Leu Tyr Phe Leu Trp Leu
1 5 10 15

Gly Cys Val Val Leu Trp Ala Gln Gly Thr Ala Gly Gln Pro Gln Pro
20 25 30

Pro Pro Pro Lys Pro Pro Arg Pro Gln Pro Pro Pro Gln Gln Val Arg
35 40 45

Ser Ala Thr Ala Gly Ser Glu Gly Gly Phe Leu Ala Pro Glu Tyr Arg
50 55 60

Glu Glu Gly Ala Ala Val Ala Ser Arg Val Arg Arg Arg Gly Gln Gln
65 70 75 80

Asp Val Leu Arg Gly Pro Asn Val Cys Gly Ser Arg Phe His Ser Tyr
85 90 95

Cys Cys Pro Gly Trp Lys Thr Leu Pro Gly Gly Asn Gln Cys Ile Val
100 105 110

Pro Ile Cys Arg Asn Ser Cys Gly Asp Gly Phe Cys Ser Arg Pro Asn
115 120 125

Met Cys Thr Cys Ser Ser Gly Gln Ile Ser Ser Thr Cys Gly Ser Lys
130 135 140

Ser Ile Gln Gln Cys Ser Val Arg Cys Met Asn Gly Gly Thr Cys Ala
145 150 155 160

Asp Asp His Cys Gln Cys Gln Lys Gly Tyr Ile Gly Thr Tyr Cys Gly
165 170 175

Gln Pro Val Cys Glu Asn Gly Cys Gln Asn Gly Gly Arg Cys Ile Gly
180 185 190

Pro Asn Arg Cys Ala Cys Val Tyr Gly Phe Thr Gly Pro Gln Cys Glu
195 200 205

Arg Asp Tyr Arg Thr Gly Pro Cys Phe Thr Gln Val Asn Asn Gln Met
210 215 220

Cys Gln Gly Gln Leu Thr Gly Ile Val Cys Thr Lys Thr Leu Cys Cys
225 230 235 240

Ala Thr Ile Gly Arg Ala Trp Gly His Pro Cys Glu Met Cys Pro Ala
245 250 255

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 Gln Pro Gln Pro Cys Arg Arg Gly Phe Ile Pro Asn Ile Arg Thr Gly
 260 265 270
 Ala Cys Gln Asp Val Asp Glu Cys Gln Ala Ile Pro Gly Ile Cys Gln
 275 280 285
 Gly Gly Asn Cys Ile Asn Thr Val Gly Ser Phe Glu Cys Arg Cys Pro
 290 295 300
 Ala Gly His Lys Gln Ser Glu Thr Thr Gln Lys Cys Glu Asp Ile Asp
 305 310 315 320
 Glu Cys Ser Ile Ile Pro Gly Ile Cys Glu Thr Gly Glu Cys Ser Asn
 325 330 335
 Thr Val Gly Ser Tyr Phe Cys Val Cys Pro Arg Gly Tyr Val Thr Ser
 340 345 350
 Thr Asp Gly Ser Arg Cys Ile Asp Gln Arg Thr Gly Met Cys Phe Ser
 355 360 365
 Gly Leu Val Asn Gly Arg Cys Ala Gln Glu Leu Pro Gly Arg Met Thr
 370 375 380
 Lys Met Gln Cys Cys Cys Glu Pro Gly Arg Cys Trp Gly Ile Gly Thr
 385 390 395 400
 Ile Pro Glu Ala Cys Pro Val Arg Gly Ser Glu Glu Tyr Arg Arg Leu
 405 410 415
 Cys Met Asp Gly Leu Pro Met Gly Gly Ile Pro Gly Ser Ala Gly Ser
 420 425 430
 Arg Pro Gly Gly Thr Gly Gly Asn Gly Phe Ala Pro Ser Gly Asn Gly
 435 440 445
 Asn Gly Tyr Gly Pro Gly Gly Thr Gly Phe Ile Pro Ile Pro Gly Gly
 450 455 460
 Asn Gly Phe Ser Pro Gly Val Gly Gly Ala Gly Val Gly Ala Gly Gly
 465 470 475 480
 Gln Gly Pro Ile Ile Thr Gly Leu Thr Ile Leu Asn Gln Thr Ile Asp
 485 490 495
 Ile Cys Lys His His Ala Asn Leu Cys Leu Asn Gly Arg Cys Ile Pro
 500 505 510
 Thr Val Ser Ser Tyr Arg Cys Glu Cys Asn Met Gly Tyr Lys Gln Asp
 515 520 525

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 Ala Asn Gly Asp Cys Ile Asp Val Asp Glu Cys Thr Ser Asn Pro Cys
 530 535 540
 Thr Asn Gly Asp Cys Val Asn Thr Pro Gly Ser Tyr Tyr Cys Lys Cys
 545 550 555 560
 His Ala Gly Phe Gln Arg Thr Pro Thr Lys Gln Ala Cys Ile Asp Ile
 565 570 575
 Asp Glu Cys Ile Gln Asn Gly Val Leu Cys Lys Asn Gly Arg Cys Val
 580 585 590
 Asn Thr Asp Gly Ser Phe Gln Cys Ile Cys Asn Ala Gly Phe Glu Leu
 595 600 605
 Thr Thr Asp Gly Lys Asn Cys Val Asp His Asp Glu Cys Thr Thr Thr
 610 615 620
 Asn Met Cys Leu Asn Gly Met Cys Ile Asn Glu Asp Gly Ser Phe Lys
 625 630 635 640
 Cys Ile Cys Lys Pro Gly Phe Val Leu Ala Pro Asn Gly Arg Tyr Cys
 645 650 655
 Thr Asp Val Asp Glu Cys Gln Thr Pro Gly Ile Cys Met Asn Gly His
 660 665 670
 Cys Ile Asn Ser Glu Gly Ser Phe Arg Cys Asp Cys Pro Pro Gly Leu
 675 680 685
 Ala Val Gly Met Asp Gly Arg Val Cys Val Asp Thr His Met Arg Ser
 690 695 700
 Thr Cys Tyr Gly Gly Ile Lys Lys Gly Val Cys Val Arg Pro Phe Pro
 705 710 715 720
 Gly Ala Val Thr Lys Ser Glu Cys Cys Cys Ala Asn Pro Asp Tyr Gly
 725 730 735
 Phe Gly Glu Pro Cys Gln Pro Cys Pro Ala Lys Asn Ser Ala Glu Phe
 740 745 750
 His Gly Leu Cys Ser Ser Gly Val Gly Ile Thr Val Asp Gly Arg Asp
 755 760 765
 Ile Asn Glu Cys Ala Leu Asp Pro Asp Ile Cys Ala Asn Gly Ile Cys
 770 775 780
 Glu Asn Leu Arg Gly Ser Tyr Arg Cys Asn Cys Asn Ser Gly Tyr Glu
 785 790 795 800

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Pro Asp Ala Ser Gly Arg Asn Cys Ile Asp Ile Asp Glu Cys Leu Val
805 810 815

Asn Arg Leu Leu Cys Asp Asn Gly Leu Cys Arg Asn Thr Pro Gly Ser
820 825 830

Tyr Ser Cys Thr Cys Pro Pro Gly Tyr Val Phe Arg Thr Glu Thr Glu
835 840 845

Thr Cys Glu Asp Ile Asn Glu Cys Glu Ser Asn Pro Cys Val Asn Gly
850 855 860

Ala Cys Arg Asn Asn Leu Gly Ser Phe Asn Cys Glu Cys Ser Pro Gly
865 870 875 880

Ser Lys Leu Ser Ser Thr Gly Leu Ile Cys Ile Asp Ser Leu Lys Gly
885 890 895

Thr Cys Trp Leu Asn Ile Gln Asp Ser Arg Cys Glu Val Asn Ile Asn
900 905 910

Gly Ala Thr Leu Lys Ser Glu Cys Cys Ala Thr Leu Gly Ala Ala Trp
915 920 925

Gly Ser Pro Cys Glu Arg Cys Glu Leu Asp Thr Ala Cys Pro Arg Gly
930 935 940

Leu Ala Arg Ile Lys Gly Val Thr Cys Glu Asp Val Asn Glu Cys Glu
945 950 955 960

Val Phe Pro Gly Val Cys Pro Asn Gly Arg Cys Val Asn Ser Lys Gly
965 970 975

Ser Phe His Cys Glu Cys Pro Glu Gly Leu Thr Leu Asp Gly Thr Gly
980 985 990

Arg Val Cys Leu Asp Ile Arg Met Glu Gln Cys Tyr Leu Lys Trp Asp
995 1000 1005

Glu Asp Glu Cys Ile His Pro Val Pro Gly Lys Phe Arg Met Asp
1010 1015 1020

Ala Cys Cys Cys Ala Val Gly Ala Ala Trp Gly Thr Glu Cys Glu
1025 1030 1035

Glu Cys Pro Lys Pro Gly Thr Lys Glu Tyr Glu Thr Leu Cys Pro
1040 1045 1050

Arg Gly Ala Gly Phe Ala Asn Arg Gly Asp Val Leu Thr Gly Arg
1055 1060 1065

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Pro	Phe	Tyr	Lys	Asp	Ile	Asn	Glu	Cys	Lys	Ala	Phe	Pro	Gly	Met
	1070					1075					1080			
Cys	Thr	Tyr	Gly	Lys	Cys	Arg	Asn	Thr	Ile	Gly	Ser	Phe	Lys	Cys
	1085					1090					1095			
Arg	Cys	Asn	Ser	Gly	Phe	Ala	Leu	Asp	Met	Glu	Glu	Arg	Asn	Cys
	1100					1105					1110			
Thr	Asp	Ile	Asp	Glu	Cys	Arg	Ile	Ser	Pro	Asp	Leu	Cys	Gly	Ser
	1115					1120					1125			
Gly	Ile	Cys	Val	Asn	Thr	Pro	Gly	Ser	Phe	Glu	Cys	Glu	Cys	Phe
	1130					1135					1140			
Glu	Gly	Tyr	Glu	Ser	Gly	Phe	Met	Met	Met	Lys	Asn	Cys	Met	Asp
	1145					1150					1155			
Ile	Asp	Glu	Cys	Glu	Arg	Asn	Pro	Leu	Leu	Cys	Arg	Gly	Gly	Thr
	1160					1165					1170			
Cys	Val	Asn	Thr	Glu	Gly	Ser	Phe	Gln	Cys	Asp	Cys	Pro	Leu	Gly
	1175					1180					1185			
His	Glu	Leu	Ser	Pro	Ser	Arg	Glu	Asp	Cys	Val	Asp	Ile	Asn	Glu
	1190					1195					1200			
Cys	Ser	Leu	Ser	Asp	Asn	Leu	Cys	Arg	Asn	Gly	Lys	Cys	Val	Asn
	1205					1210					1215			
Met	Ile	Gly	Thr	Tyr	Gln	Cys	Ser	Cys	Asn	Pro	Gly	Tyr	Gln	Ala
	1220					1225					1230			
Thr	Pro	Asp	Arg	Gln	Gly	Cys	Thr	Asp	Ile	Asp	Glu	Cys	Met	Ile
	1235					1240					1245			
Met	Asn	Gly	Gly	Cys	Asp	Thr	Gln	Cys	Thr	Asn	Ser	Glu	Gly	Ser
	1250					1255					1260			
Tyr	Glu	Cys	Ser	Cys	Ser	Glu	Gly	Tyr	Ala	Leu	Met	Pro	Asp	Gly
	1265					1270					1275			
Arg	Ser	Cys	Ala	Asp	Ile	Asp	Glu	Cys	Glu	Asn	Asn	Pro	Asp	Ile
	1280					1285					1290			
Cys	Asp	Gly	Gly	Gln	Cys	Thr	Asn	Ile	Pro	Gly	Glu	Tyr	Arg	Cys
	1295					1300					1305			
Leu	Cys	Tyr	Asp	Gly	Phe	Met	Ala	Ser	Met	Asp	Met	Lys	Thr	Cys
	1310					1315					1320			

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Ile	Asp	Val	Asn	Glu	Cys	Asp	Leu	Asn	Ser	Asn	Ile	Cys	Met	Phe
	1325					1330					1335			
Gly	Glu	Cys	Glu	Asn	Thr	Lys	Gly	Ser	Phe	Ile	Cys	His	Cys	Gln
	1340					1345					1350			
Leu	Gly	Tyr	Ser	Val	Lys	Lys	Gly	Thr	Thr	Gly	Cys	Thr	Asp	Val
	1355					1360					1365			
Asp	Glu	Cys	Glu	Ile	Gly	Ala	His	Asn	Cys	Asp	Met	His	Ala	Ser
	1370					1375					1380			
Cys	Leu	Asn	Ile	Pro	Gly	Ser	Phe	Lys	Cys	Ser	Cys	Arg	Glu	Gly
	1385					1390					1395			
Trp	Ile	Gly	Asn	Gly	Ile	Lys	Cys	Ile	Asp	Leu	Asp	Glu	Cys	Ser
	1400					1405					1410			
Asn	Gly	Thr	His	Gln	Cys	Ser	Ile	Asn	Ala	Gln	Cys	Val	Asn	Thr
	1415					1420					1425			
Pro	Gly	Ser	Tyr	Arg	Cys	Ala	Cys	Ser	Glu	Gly	Phe	Thr	Gly	Asp
	1430					1435					1440			
Gly	Phe	Thr	Cys	Ser	Asp	Val	Asp	Glu	Cys	Ala	Glu	Asn	Ile	Asn
	1445					1450					1455			
Leu	Cys	Glu	Asn	Gly	Gln	Cys	Leu	Asn	Val	Pro	Gly	Ala	Tyr	Arg
	1460					1465					1470			
Cys	Glu	Cys	Glu	Met	Gly	Phe	Thr	Pro	Ala	Ser	Asp	Ser	Arg	Ser
	1475					1480					1485			
Cys	Gln	Asp	Ile	Asp	Glu	Cys	Ser	Phe	Gln	Asn	Ile	Cys	Val	Phe
	1490					1495					1500			
Gly	Thr	Cys	Asn	Asn	Leu	Pro	Gly	Met	Phe	His	Cys	Ile	Cys	Asp
	1505					1510					1515			
Asp	Gly	Tyr	Glu	Leu	Asp	Arg	Thr	Gly	Gly	Asn	Cys	Thr	Asp	Ile
	1520					1525					1530			
Asp	Glu	Cys	Ala	Asp	Pro	Ile	Asn	Cys	Val	Asn	Gly	Leu	Cys	Val
	1535					1540					1545			
Asn	Thr	Pro	Gly	Arg	Tyr	Glu	Cys	Asn	Cys	Pro	Pro	Asp	Phe	Gln
	1550					1555					1560			
Leu	Asn	Pro	Thr	Gly	Val	Gly	Cys	Val	Asp	Asn	Arg	Val	Gly	Asn
	1565					1570					1575			

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Cys	Tyr	Leu	Lys	Phe	Gly	Pro	Arg	Gly	Asp	Gly	Ser	Leu	Ser	Cys
1580						1585					1590			
Asn	Thr	Glu	Ile	Gly	Val	Gly	Val	Ser	Arg	Ser	Ser	Cys	Cys	Cys
1595						1600					1605			
Ser	Leu	Gly	Lys	Ala	Trp	Gly	Asn	Pro	Cys	Glu	Thr	Cys	Pro	Pro
1610						1615					1620			
Val	Asn	Ser	Thr	Glu	Tyr	Tyr	Thr	Leu	Cys	Pro	Gly	Gly	Glu	Gly
1625						1630					1635			
Phe	Arg	Pro	Asn	Pro	Ile	Thr	Ile	Ile	Leu	Glu	Asp	Ile	Asp	Glu
1640						1645					1650			
Cys	Gln	Glu	Leu	Pro	Gly	Leu	Cys	Gln	Gly	Gly	Asn	Cys	Ile	Asn
1655						1660					1665			
Thr	Phe	Gly	Ser	Phe	Gln	Cys	Glu	Cys	Pro	Gln	Gly	Tyr	Tyr	Leu
1670						1675					1680			
Ser	Glu	Asp	Thr	Arg	Ile	Cys	Glu	Asp	Ile	Asp	Glu	Cys	Phe	Ala
1685						1690					1695			
His	Pro	Gly	Val	Cys	Gly	Pro	Gly	Thr	Cys	Tyr	Asn	Thr	Leu	Gly
1700						1705					1710			
Asn	Tyr	Thr	Cys	Ile	Cys	Pro	Pro	Glu	Tyr	Met	Gln	Val	Asn	Gly
1715						1720					1725			
Gly	His	Asn	Cys	Met	Asp	Met	Arg	Lys	Ser	Phe	Cys	Tyr	Arg	Ser
1730						1735					1740			
Tyr	Asn	Gly	Thr	Thr	Cys	Glu	Asn	Glu	Leu	Pro	Phe	Asn	Val	Thr
1745						1750					1755			
Lys	Arg	Met	Cys	Cys	Cys	Thr	Tyr	Asn	Val	Gly	Lys	Ala	Trp	Asn
1760						1765					1770			
Lys	Pro	Cys	Glu	Pro	Cys	Pro	Thr	Pro	Gly	Thr	Ala	Asp	Phe	Lys
1775						1780					1785			
Thr	Ile	Cys	Gly	Asn	Ile	Pro	Gly	Phe	Thr	Phe	Asp	Ile	His	Thr
1790						1795					1800			
Gly	Lys	Ala	Val	Asp	Ile	Asp	Glu	Cys	Lys	Glu	Ile	Pro	Gly	Ile
1805						1810					1815			
Cys	Ala	Asn	Gly	Val	Cys	Ile	Asn	Gln	Ile	Gly	Ser	Phe	Arg	Cys
1820						1825					1830			

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Glu Cys Pro Thr Gly Phe Ser Tyr Asn Asp Leu Leu Val Cys
 1835 1840 1845
 Glu Asp Ile Asp Glu Cys Ser Asn Gly Asp Asn Leu Cys Gln Arg
 1850 1855 1860
 Asn Ala Asp Cys Ile Asn Ser Pro Gly Ser Tyr Arg Cys Glu Cys
 1865 1870 1875
 Ala Ala Gly Phe Lys Leu Ser Pro Asn Gly Ala Cys Val Asp Arg
 1880 1885 1890
 Asn Glu Cys Leu Glu Ile Pro Asn Val Cys Ser His Gly Leu Cys
 1895 1900 1905
 Val Asp Leu Gln Gly Ser Tyr Gln Cys Ile Cys His Asn Gly Phe
 1910 1915 1920
 Lys Ala Ser Gln Asp Gln Thr Met Cys Met Asp Val Asp Glu Cys
 1925 1930 1935
 Glu Arg His Pro Cys Gly Asn Gly Thr Cys Lys Asn Thr Val Gly
 1940 1945 1950
 Ser Tyr Asn Cys Leu Cys Tyr Pro Gly Phe Glu Leu Thr His Asn
 1955 1960 1965
 Asn Asp Cys Leu Asp Ile Asp Glu Cys Ser Ser Phe Phe Gly Gln
 1970 1975 1980
 Val Cys Arg Asn Gly Arg Cys Phe Asn Glu Ile Gly Ser Phe Lys
 1985 1990 1995
 Cys Leu Cys Asn Glu Gly Tyr Glu Leu Thr Pro Asp Gly Lys Asn
 2000 2005 2010
 Cys Ile Asp Thr Asn Glu Cys Val Ala Leu Pro Gly Ser Cys Ser
 2015 2020 2025
 Pro Gly Thr Cys Gln Asn Leu Glu Gly Ser Phe Arg Cys Ile Cys
 2030 2035 2040
 Pro Pro Gly Tyr Glu Val Lys Ser Glu Asn Cys Ile Asp Ile Asn
 2045 2050 2055
 Glu Cys Asp Glu Asp Pro Asn Ile Cys Leu Phe Gly Ser Cys Thr
 2060 2065 2070
 Asn Thr Pro Gly Gly Phe Gln Cys Leu Cys Pro Pro Gly Phe Val
 2075 2080 2085

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Leu	Ser	Asp	Asn	Gly	Arg	Arg	Cys	Phe	Asp	Thr	Arg	Gln	Ser	Phe
	2090					2095					2100			
Cys	Phe	Thr	Asn	Phe	Glu	Asn	Gly	Lys	Cys	Ser	Val	Pro	Lys	Ala
	2105					2110					2115			
Phe	Asn	Thr	Thr	Lys	Ala	Lys	Cys	Cys	Cys	Ser	Lys	Met	Pro	Gly
	2120					2125					2130			
Glu	Gly	Trp	Gly	Asp	Pro	Cys	Glu	Leu	Cys	Pro	Lys	Asp	Asp	Glu
	2135					2140					2145			
Val	Ala	Phe	Gln	Asp	Leu	Cys	Pro	Tyr	Gly	His	Gly	Thr	Val	Pro
	2150					2155					2160			
Ser	Leu	His	Asp	Thr	Arg	Glu	Asp	Val	Asn	Glu	Cys	Leu	Glu	Ser
	2165					2170					2175			
Pro	Gly	Ile	Cys	Ser	Asn	Gly	Gln	Cys	Ile	Asn	Thr	Asp	Gly	Ser
	2180					2185					2190			
Phe	Arg	Cys	Glu	Cys	Pro	Met	Gly	Tyr	Asn	Leu	Asp	Tyr	Thr	Gly
	2195					2200					2205			
Val	Arg	Cys	Val	Asp	Thr	Asp	Glu	Cys	Ser	Ile	Gly	Asn	Pro	Cys
	2210					2215					2220			
Gly	Asn	Gly	Thr	Cys	Thr	Asn	Val	Ile	Gly	Ser	Phe	Glu	Cys	Asn
	2225					2230					2235			
Cys	Asn	Glu	Gly	Phe	Glu	Pro	Gly	Pro	Met	Met	Asn	Cys	Glu	Asp
	2240					2245					2250			
Ile	Asn	Glu	Cys	Ala	Gln	Asn	Pro	Leu	Leu	Cys	Ala	Phe	Arg	Cys
	2255					2260					2265			
Met	Asn	Thr	Phe	Gly	Ser	Tyr	Glu	Cys	Thr	Cys	Pro	Ile	Gly	Tyr
	2270					2275					2280			
Ala	Leu	Arg	Glu	Asp	Gln	Lys	Met	Cys	Lys	Asp	Leu	Asp	Glu	Cys
	2285					2290					2295			
Ala	Glu	Gly	Leu	His	Asp	Cys	Glu	Ser	Arg	Gly	Met	Met	Cys	Lys
	2300					2305					2310			
Asn	Leu	Ile	Gly	Thr	Phe	Met	Cys	Ile	Cys	Pro	Pro	Gly	Met	Ala
	2315					2320					2325			
Arg	Arg	Pro	Asp	Gly	Glu	Gly	Cys	Val	Asp	Glu	Asn	Glu	Cys	Arg
	2330					2335					2340			

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Thr	Lys 2345	Pro	Gly	Ile	Cys	Glu 2350	Asn	Gly	Arg	Cys	Val 2355	Asn	Ile	Ile
Gly	Ser 2360	Tyr	Arg	Cys	Glu	Cys 2365	Asn	Glu	Gly	Phe	Gln 2370	Ser	Ser	Ser
Ser	Gly 2375	Thr	Glu	Cys	Leu	Asp 2380	Asn	Arg	Gln	Gly	Leu 2385	Cys	Phe	Ala
Glu	Val 2390	Leu	Gln	Thr	Ile	Cys 2395	Gln	Met	Ala	Ser	Ser 2400	Ser	Arg	Asn
Leu	Val 2405	Thr	Lys	Ser	Glu	Cys 2410	Cys	Cys	Asp	Gly	Gly 2415	Arg	Gly	Trp
Gly	His 2420	Gln	Cys	Glu	Leu	Cys 2425	Pro	Leu	Pro	Gly	Thr 2430	Ala	Gln	Tyr
Lys	Lys 2435	Ile	Cys	Pro	His	Gly 2440	Pro	Gly	Tyr	Thr	Thr 2445	Asp	Gly	Arg
Asp	Ile 2450	Asp	Glu	Cys	Lys	Val 2455	Met	Pro	Asn	Leu	Cys 2460	Thr	Asn	Gly
Gln	Cys 2465	Ile	Asn	Thr	Met	Gly 2470	Ser	Phe	Arg	Cys	Phe 2475	Cys	Lys	Val
Gly	Tyr 2480	Thr	Thr	Asp	Ile	Ser 2485	Gly	Thr	Ser	Cys	Ile 2490	Asp	Leu	Asp
Glu	Cys 2495	Ser	Gln	Ser	Pro	Lys 2500	Pro	Cys	Asn	Tyr	Ile 2505	Cys	Lys	Asn
Thr	Glu 2510	Gly	Ser	Tyr	Gln	Cys 2515	Ser	Cys	Pro	Arg	Gly 2520	Tyr	Val	Leu
Gln	Glu 2525	Asp	Gly	Lys	Thr	Cys 2530	Lys	Asp	Leu	Asp	Glu 2535	Cys	Gln	Thr
Lys	Gln 2540	His	Asn	Cys	Gln	Phe 2545	Leu	Cys	Val	Asn	Thr 2550	Leu	Gly	Gly
Phe	Thr 2555	Cys	Lys	Cys	Pro	Pro 2560	Gly	Phe	Thr	Gln	His 2565	His	Thr	Ala
Cys	Ile 2570	Asp	Asn	Asn	Glu	Cys 2575	Gly	Ser	Gln	Pro	Ser 2580	Leu	Cys	Gly
Ala	Lys 2585	Gly	Ile	Cys	Gln	Asn 2590	Thr	Pro	Gly	Ser	Phe 2595	Ser	Cys	Glu

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Cys	Gln	Arg	Gly	Phe	Ser	Leu	Asp	Ala	Thr	Gly	Leu	Asn	Cys	Glu
2600						2605					2610			
Asp	Val	Asp	Glu	Cys	Asp	Gly	Asn	His	Arg	Cys	Gln	His	Gly	Cys
2615						2620					2625			
Gln	Asn	Ile	Leu	Gly	Gly	Tyr	Arg	Cys	Gly	Cys	Pro	Gln	Gly	Tyr
2630						2635					2640			
Ile	Gln	His	Tyr	Gln	Trp	Asn	Gln	Cys	Val	Asp	Glu	Asn	Glu	Cys
2645						2650					2655			
Ser	Asn	Pro	Asn	Ala	Cys	Gly	Ser	Ala	Ser	Cys	Tyr	Asn	Thr	Leu
2660						2665					2670			
Gly	Ser	Tyr	Lys	Cys	Ala	Cys	Pro	Ser	Gly	Phe	Ser	Phe	Asp	Gln
2675						2680					2685			
Phe	Ser	Ser	Ala	Cys	His	Asp	Val	Asn	Glu	Cys	Ser	Ser	Ser	Lys
2690						2695					2700			
Asn	Pro	Cys	Asn	Tyr	Gly	Cys	Ser	Asn	Thr	Glu	Gly	Gly	Tyr	Leu
2705						2710					2715			
Cys	Gly	Cys	Pro	Pro	Gly	Tyr	Tyr	Arg	Val	Gly	Gln	Gly	His	Cys
2720						2725					2730			
Val	Ser	Gly	Met	Gly	Phe	Asn	Lys	Gly	Gln	Tyr	Leu	Ser	Leu	Asp
2735						2740					2745			
Thr	Glu	Val	Asp	Glu	Glu	Asn	Ala	Leu	Ser	Pro	Glu	Ala	Cys	Tyr
2750						2755					2760			
Glu	Cys	Lys	Ile	Asn	Gly	Tyr	Ser	Lys	Lys	Asp	Ser	Arg	Gln	Lys
2765						2770					2775			
Arg	Ser	Ile	His	Glu	Pro	Asp	Pro	Thr	Ala	Val	Glu	Gln	Ile	Ser
2780						2785					2790			
Leu	Glu	Ser	Val	Asp	Met	Asp	Ser	Pro	Val	Asn	Met	Lys	Phe	Asn
2795						2800					2805			
Leu	Ser	His	Leu	Gly	Ser	Lys	Glu	His	Ile	Leu	Glu	Leu	Arg	Pro
2810						2815					2820			
Ala	Ile	Gln	Pro	Leu	Asn	Asn	His	Ile	Arg	Tyr	Val	Ile	Ser	Gln
2825						2830					2835			
Gly	Asn	Asp	Asp	Ser	Val	Phe	Arg	Ile	His	Gln	Arg	Asn	Gly	Leu
2840						2845					2850			

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Ser Tyr Leu His Thr Ala Lys Lys Lys Leu Met Pro Gly Thr Tyr
2855 2860 2865

Thr Leu Glu Ile Thr Ser Ile Pro Leu Tyr Lys Lys Lys Glu Leu
2870 2875 2880

Lys Lys Leu Glu Glu Ser Asn Glu Asp Asp Tyr Leu Leu Gly Glu
2885 2890 2895

Leu Gly Glu Ala Leu Arg Met Arg Leu Gln Ile Gln Leu Tyr
2900 2905 2910

<210> 677
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 677
ggctggcttt gctaaccgag g 21

<210> 678
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<220>
<223> Description of artificial sequence: oligonucleotide

<400> 678
ccgtcaatgt ccatgcagtt c 21

<210> 679
<211> 593
<212> DNA
<213> Homo sapiens

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

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

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

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

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

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 cacgaaggcc cagaatccat tttagggttc caaacagacc tttcgtcctt tcaagggtga 180
 accaccgttt tccattccag ccattttatt ggccacaccg ttaccttact tatagggtatt 240
 tccccagaag aagactccag agagcaagct catctgagga aagctgagag ggaagagaaa 300
 cccaaacata ctgaagcaaa aaaaagccta tccttcagaa aaaagcaaca aaaagatttc 360
 tgttttatct ttcgaaacta aaactattgg atttgaagat taagtatcct aaacatcact 420
 gactagaaac tgttctcttt gtcagcagtg aagatattgg atcataggnt tattgatggn 480
 ttgcaaaatt ggaccaaata accacgntta tttttatcct nncaaccttc ttatgggtca 540
 cagganntat ttnatgcaaa ntaaaatcta ttaaattggga nnaaaaaana aaa 593

<210> 680
 <211> 22
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 680
 ctgccagatc ttacactca cc 22

<210> 681
 <211> 25
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: Oligonucleotide

<400> 681
 gctttcctca gatgagcttg ctctc 25

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<210> 682
<211> 1587
<212> DNA
<213> Homo sapiens

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ctcctgatgt gtgagatccc tatggtggag ctcacctttg acagagctgt ggccagcggc 180
tgccaacggt gctgtgactc tgaggacccc ctggatcctg cccatgtatc ctcagcctct 240
tcctccggcc gccccacgc cctgcctgag atcagaccct acattaatat caccatcctg 300
aaggggtgaca aaggggaccc agggccaatg ggcctgccag ggtacatggg cagggaaggg 360
cccaagggg agcctggccc tcagggcagc aaggggtgaca agggggagat gggcagcccc 420
ggcgccccgt gccagaagcg cttcttcgcc ttctcagtgg gccgaagac ggccctgcac 480
agggcgagg acttcagac gctgctcttc gaaagggctt ttgtgaacct tgatgggtgc 540
tttgacatgg cgaccggcca gtttgctgct cccctgcgtg gcatctactt cttcagcctc 600
aatgtgcaca gctggaatta caaggagacg tacgtgcaca ttatgcataa ccagaaagag 660
gctgtcatcc tgtacgcgca gccagcgag cgcagcatca tgcagagcca gagtgtgatg 720
ctggacctgg cctacgggga ccgcgtctgg gtgcggctct tcaagcgcca gcgcgagaac 780
gccatctaca gcaacgactt cgacacctac atcaccttca gcggccacct catcaaggcc 840
gaggacgact gagggcctct gggccaccct cccggctgga gagctcagct gatacggcat 900
cctgcgagaa gacctgccct cctcactggg atccccctcc tgcctcctcc cagggtctctg 960
ccagggcctt gctcagtccc ttccaccaa gtcattctgaa cttccgtttc cccagggcct 1020
ccagctgccc tcagacactg atgtctgtcc ccagggtgctc tctgcccctc atgcccctct 1080
caccggccca gtgccccgac tctccaggct ttatcaagggt gctaaggccc ggggtgggag 1140
ctcctcgtct cagagccctc ctccggcctg gtgctgcctt taaaaacacc tgcaggagaa 1200
gggccacgga agccccaggc tttagagccc tcagcaggtc tggggagcta gagcaaagga 1260
gggacctcag gccttccgtt tcttcttcca ggggtggggtg gcctggtgtt cccctagcct 1320
tccaaaccca ggtggcctgc ctttctcccc agagggaggc ggcctccgcc cattggtgct 1380
catgcagact ctggggctga ggtgccccgg ggggtgatct ctggtgctca cagccgaggg 1440
agccgtggct ccatggccag atgacggaaa cagggtctga ccaagtgcca ggaagacctg 1500
tgctataaac caccctgcct gatcctgccc ctgcctgacc ccgccacgcc ctgccgtcca 1560
gcatgattaa agaattgctgt ctcctca 1587

<210> 683
<211> 278
<212> PRT
<213> Homo sapiens

<400> 683

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Met Gln Trp Leu Arg Val Arg Glu Ser Pro Gly Glu Ala Thr Gly His
1 5 10 15

Arg Val Thr Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu
20 25 30

Leu Leu Phe Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe
35 40 45

Asp Arg Ala Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp
50 55 60

Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro
65 70 75 80

His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys
85 90 95

Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Leu Pro Gly Tyr Met Gly
100 105 110

Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly Ser Lys Gly Asp
115 120 125

Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys Gln Lys Arg Phe Phe
130 135 140

Ala Phe Ser Val Gly Arg Lys Thr Ala Leu His Ser Gly Glu Asp Phe
145 150 155 160

Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe
165 170 175

Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe
180 185 190

Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His
195 200 205

Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser
210 215 220

Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr
225 230 235 240

Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala
245 250 255

Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu
260 265 270

Ile Lys Ala Glu Asp Asp
275

<210> 684
<211> 21
<212> DNA
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<220>
<223> Description of artificial sequence: oligonucleotide

<400> 684
catcctgaag ggtgacaaag g 21

<210> 685
<211> 21
<212> DNA
<213> artificial

<220>
<223> Description of artificial sequence: oligonucleotide

<400> 685
gaggctgaag aagtagatgc c 21

<210> 686
<211> 551
<212> DNA
<213> Homo sapiens

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

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<222> (158)..(158)
<223> n is a, c, g, t or u

<400> 686
agggtccatta aggttttggc tacaatggct ctttgggggt tgngaataga attatccaag 60

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tattgtaaaa gtcaatattn accnaatgna ttatttccta aaaggcttaa acttgaatta	120
tatcatgtaa agatggcatc tgccttagnc aacttggnct ttatgcagtt tgcctttca	180
gttttcagga atgagacctc ttgacccctc cctccaatg cagccctac taagggggag	240
tttaaggagc catacatagt tctataattc aaatcaagta aacatgcttc ttgtcccagg	300
ttaacttgtg ctgcctcagt cgctgtttaa acatttttat acgcactggt aacctgcctg	360
cccattaccc tattactttt aatgggtaaa ctactgttcc ctgggcagtt gtctctttta	420
acgtcccacc ctaaacttgc caaccctcat atgaaggcct caggcttggt attggcaaag	480
gtcagaagtc ttaagctagt gaccttgag gctaaagtag gccttgaatt tgtttgacca	540
ggaactaaat t	551

<210> 687
 <211> 20
 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

<400> 687	
taacttgtgc tgcctcagtc	20

<210> 688
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 <212> DNA
 <213> artificial

<220>
 <223> Description of artificial sequence: oligonucleotide

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ctttgccaat aacaagcctg ag	22