

# SEQUENCE LISTING

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<150> EP09450020.4

<151> 2009-01-28

<160> 1440

<170> PatentIn version 3.5

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cccagcgatg ggcgtgcagc cccccaactt ctctgggtg cttccgggccc ggctggcggg 240  
actggcgctg ccgcg 255

<210> 1092  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1092  
ggcggctgcg gggagcgatt ttccagcccg gtttgtgctc tgtgtgtttg tctgcctctg 60  
gagggtggg tcctccttat tcacaggtga gtcacaccct gaaacacagg ctctcttcct 120  
gtcaggactg agtcaggtag aagagtcgat aaaaccacct gatcaaggaa aaggaaggca 180  
cagcggagcg cagagtgaga accaccaacc gaggcgccgg gcagcgaccc ctgcagcggg 240  
gacagagact gagcg 255

<210> 1093  
<211> 155  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1093

gccaggaccg cgcacagcag cagggcgcgg gcgagcatcg cagcggcggg cagggcgcgg 60

cgcgggggta ggctttgctg tctgagggcg tctggctgtg gagctgaagg aggcgctgct 120

gaggagttcc tggacgtgct cctgacgctc actgc 155

<210> 1094

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1094

cgggcaagag agcgcgggag gaggaggagg agaaaaagga ggaggaggag gaggaggagg 60

cggccccgca tccctaata ga gggaatgaat ggagaggccc cctcggtgg cgcccccca 120

cccggcgcg gccccaagt gcctctgggc gctgctgccc gcgcccgtg ctccgcgcgc 180

agccggctcg ggccgtcct cctgactgag gcgcggcggc ggcggtggct gtgaccgcgc 240

ggaccgagcc gagac 255

<210> 1095

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1095

gcgcgcagcc aggggcgacg cttccgctcc gagccgcggc cgggggccac gcgctaaggg 60

cccgaacttg gcagctgacc gtcccggaca gggaggccct tcagcctcga cgcggcctgc 120

gtcctccgga gggccctgct ccgcccggga agcgtccgcc tcccgccgc ccgcccgcag 180

atgtcgctgc ccctctggct gtcccggcct gaccgccgcg cgccgccctg ctgctcacct 240

acttccgcgc cacgg 255

<210> 1096

<211> 215

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1096  
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 ggccaccgcc gttccctgat agattgctga tgcctggccg cgggaacgcc cacggaaccc 120  
 gcgtccacgg ggccggggccg gccgcccgcg cccccctgc cggccggggg gcggagtttc 180  
 ccgggcccct gccgggtgga gctctgcggg ccgct 215

<210> 1097  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1097  
 gagggcccg ggtggggctg cgcctgagg gccctgccct gccctccgca cgcctctggc 60  
 cacggtcctt tccccggctg tgggtctgag gccctgcgt gcgcagcgt cctggcctct 120  
 gcggccagcg cgggggagg gagaggagag tgcccggcag gcggcggctg ggccggcccc 180  
 gaactgggtc gtggaaggat cgcggggagc ggccctcagg ccttcggcct cactgcgtcc 240  
 ccacttcct gcgc 255

<210> 1098  
 <211> 217  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1098  
 tatgcgccc ggcgggtggc tcacgcctgt aatcccagca ctttgggagg ccgaggcggg 60  
 cggatcacga ggtcaggaga tcgagaccat cctgactaac acggtgaaac cccgtctcta 120  
 ctaaaaatac aaaaattagc cgggcccggg ggccgggtgcc tgtagtccca gctacttggg 180  
 aggctgaggc aggagaatgg cgtgaaccgc gggcaga 217

<210> 1099  
 <211> 244  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1099  
 cgcaggggaa ggccggggag ggaggtgtga agcggcggct ggtgcttggg tctacgggaa 60  
 tacgcataac agcggccgtc agggcggcgg gcaggcggag acggcggcgc tccccccggg 120

ggcggccggc gcgggcgct cctcggccgc cgctgccgcg agaagcggga aagcagaagc 180  
ggcggggccc gggcctcagg ggcaggggg cggcgcccgg ccactactcg ccagggcccg 240  
cccg 244

<210> 1100  
<211> 249  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1100  
cctgaggcgg ggccgtccgg caccctgtga tggggcgtgg cccctgggga ggctcccacc 60  
agccctcaga ttctcaggg ccgcagaggt gtggagctgg ttgggcccgt tcttcaccct 120  
cctcccctgg tgcttgctg tgcccagca gggtgacagt gatgtagtag cgggtcctcc 180  
tggaagaggg acgcgtgtgt agggctctgg caggctctgg caaggcagtc cctgggggtgg 240  
cgggcttgc 249

<210> 1101  
<211> 187  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1101  
gaggccgggg acgccgagag ccgggtcttc tacctgaaga tgaaggggtga ctactaccgc 60  
tacctggccg aggtggccac cggtgacgac aagaagcgca tcattgactc agcccgggtca 120  
gcctaccagg aggccatgga catcagcaag aaggagatgc cgcccaccaa ccccatccgc 180  
ctgggcc 187

<210> 1102  
<211> 239  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1102  
ccgccggctc ccccgatga ggagctgcc tagctttcga atccacctgt tttgaacaac 60  
aggattagtg cctgtgccac gtcccacgcc tccagaaaac ccgcaggctc ccggaggctt 120  
cgccccttca aacactgccc gagtctccct aaccttctc gccgccttcc tgcgggtgac 180  
cccaaacgc ccagctccg ctcccgccct tctctcccg ctaccacag cctctcgga 239

<210> 1103  
<211> 187  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1103  
caggagcgac gcgcgccaaa aggcggcggg aaggaggcgg ggcagagcgc gcccgggacc 60  
ccgacttggg cgcgccagc tggagaggcg gagcgccggg aggagacctt ggccccgcgg 120  
cgactcgggtg gcccgcgctg ccttcccgcg cgccgggcta aaaaggcgct aacgcccgcg 180  
gccgcct 187

<210> 1104  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1104  
cgggggaaac gcaggcgtcg ggcacagagt cggcaccggc gtccccagct ctgccgaaga 60  
tcgcggtcgg gtctggcccc cgaggagggc cctggcgccg gacctgcttc ggccctgcgt 120  
ggcgggcctc gccgggctct gcaggagcga cgcgcgccaa aaggcgggcg gaaggaggcg 180  
gggcagagcg cgccccggac cccgacttgg acgcggccag ctggagaggc ggagcgccgg 240  
gaggagacct tggcc 255

<210> 1105  
<211> 221  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1105  
ccccccacc tggaccgcga ggctcaggag tccacgcggg gagaggggat ggagaactct 60  
cctcgcttcg tcctctctcc cggggaatcc ctaacccgc actgcgttac ctgtcgcttt 120  
ggggaggccg ctgccgggat ccggccccga acagcccggg ggggcagggg cgggggtcgt 180  
cgaggggatg ggggcagaga gcaggcggcg ggcaggatgc c 221

<210> 1106  
<211> 174  
<212> DNA



<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1106

gccccggttt ccggcgact ccagggggcg tggctcgggt ccacccgggc tgcgagccgg 60

cagcacaggc caataggcaa ttagcgcgcg ccaggctgcc ttccccgcgc cggacccggg 120

acgtctgaac ggaagttcga cccatcggcg acccgacggc gagaccccgcc ccca 174

<210> 1107

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1107

cgctggggccg ccccttgctc ttagccagag gtagcccctc accccgcgac ttaccccaca 60

ccccgctctc cagaaccccc atatggggcg tcaccgcccg ccgcacagc tcgaacaggg 120

cggggggagc gttggggccc gagggccgagc tcttcgctgg cgccgcctcc cgggacgtgg 180

cctccatggg cgttgccgccc gctacctcac agaaccagca actccggggc cgccaggcct 240

cgggcgcccgc catct 255

<210> 1108

<211> 253

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1108

gcttctccat agctcgccac acacacacac acacgccacg caccgtataa aagcctaaat 60

gacacaccac tgcagcgctc aaacgctggg aagaagactc ccttgtggca ccggaaaccc 120

acgaggttgg aagtgggagg ggaagagggc cagatacttc acctgaaaat ccgccaggat 180

catctcccgg tccatgttgg acgcatggc ggccgcccag ttccgcggct ccgggagcga 240

agcgcgcacc tgg 253

<210> 1109

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1109  
 ccgcgccacgc gcaagtccag gccgccgcgg ccctggaata gagactcgcc cttgatgtcc 60  
 ctctcgaagt agtaggcggc atcgccgata tccacgtcac cggcggcctt ctgagacgtg 120  
 ttctgccgca gctcgatctg gatggtgggc tgctcgtagt gcacggccgc cacgaacttg 180  
 ggggtgcagcc gatagcgctc gcggaagagc cgcctcagct cggcgtccag gtctgagtgg 240  
 ttgaaggcgc cggcg 255

<210> 1110  
 <211> 233  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1110  
 gtctcaactc accgccgcca ccgccgcgca gccccgcggc cgctgctcca tagccctccg 60  
 acgggcgccc aggggcttcc cggctccgtg ctctctgccc gtcgtgggtc cgccttcagc 120  
 cccgcgcccc cagggcccgcc cccgcgccgt cgagaagggc ccgcctggcg ggcgggggga 180  
 ggcggggccg cccgagccca accgagtcg accaggtgcc ccctctgctc ggc 233

<210> 1111  
 <211> 203  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1111  
 acaaatgcgc tgctcggaga gactgccgcg gcaaccaact ggacacccca agagctcact 60  
 cctccgcggc tttatattcc gacttgcgca caggagcggg gtgcgggggc gcagggagtg 120  
 tgggtaacag gcatagattc cgcttgcgca atacgtggta agaaaccagc tgtgaggggc 180  
 tggcccaacg cagagcggcg cga 203

<210> 1112  
 <211> 181  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1112  
 gcgcctgcgc agtgcagctt agtgcgtcgg cgcgcagttc tcccgcccggt ttcagcggcg 60  
 cagcttctgt agttgggcta ctggaggggt cgctcagaaa cctcatactt ctcgggtcag 120

ggaaggtttg ggaggatgct gaggcctgag atctcatcaa cctcgcttc tgccccggcg 180  
g 181

<210> 1113  
<211> 172  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1113  
aagtcaaggg ctttcaacct cccctgcccc attcatacag tggaaggtct aaccagggct 60  
tgtcagccta agaacacggg atctcttcac tgtggttcat gtgtagagtg gagtttccat 120  
gctgagagag acaagcaaag aagaccagag gctcccaccc ctgtccagtg ga 172

<210> 1114  
<211> 254  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1114  
tggatccgc acaggggctg caggtggagc tacctgccag tcccctgccg tgcgctcgca 60  
ttcctcagcc cttgggtggt ccatgggact gggcgccatg gagcaggggg tggtgcttgt 120  
cggggagggt ggggccgcac aggagcccat ggagtgggtg ggaggctcag gcatggcggg 180  
ctgcaggctc ggagccctgc cctgcgggaa cgcagctaag gctcggtgag aaatagagcg 240  
cagcgccggt gggc 254

<210> 1115  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1115  
ccgcctgtgg ttttccgcgc attgtgaggg atgaggggtg gaggtggtat tagacgcagc 60  
cgaatcctcc ctgagagtcc gccaggtggg cgtctcaggg gtgggagtgg ccgcgtcgtg 120  
aagcggagag aggatttctc tcctggtcct ggagaaggcc cccggcgggc ggcgccatcc 180  
ctcgctggcg agtcccggga gcgaggtggt ctctgcaggg gaggaagttc ccgggcggcg 240  
cggcctgcgt cacag 255

<210> 1116  
<211> 231  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1116  
cgcgctctcc cgcgctctg cccgcccccg gcgcccgcgc ccgcgcgtcc tcccgactcc 60  
ccgcccccg cccgggtcac ttgccgtcgc ggtggggcgc ccccggcgag tccacacccc 120  
tgccccgcct cctccccgga ggaaactccg ggaccctgca agggatgact caccocagtg 180  
attcaaccgc gccaccgagc gcggagctgc cctggaggac gcaggcgggt c 231

<210> 1117  
<211> 246  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1117  
tccggcccag cccaacccc gacctaagta accggctatc ggccacccat tggctgaagt 60  
ccctgagcac ctgttgggag gaaggctgct gcgtgcagcc ggaaagtcct gcgtccctcc 120  
gctcttaccg cggcaggaac cacagcctcc ccgaacctca gggtttgtat ggatttcgcc 180  
caggggaaag cgctccaacg cgcggtgcaa acggaagcca ctggctggtt gggcggctgt 240  
gatggg 246

<210> 1118  
<211> 237  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1118  
ccgggtcagg cgcacagggc agcggcgctg ccggaggacc agggccggcg tgccggcgtc 60  
cagcgaggat gcgcagactg cctcaggccc ggcccgcccg cacagggcac gcgcgcagccc 120  
ggtcggggcg gaacaccccc cccctcccg gctccgcccc agctccgccc ccgcgcgccc 180  
cggccccgcc cccgcgcgct ctcttgcttt tctcaggtcc tcggctccgc cccgctc 237

<210> 1119  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1119

ggggcggtgc ctgcgccata tatgggagcg gccgcccctc gccgcgcccc tcgcgcgcgc 60  
cgccgcgcgcg ctgcgcgact gactgcctga cggcgccgcg agccggcccc agccccgcga 120  
gccccgcgag ccccgccgcc gccgagcgcc accgagcgcc gccgcgcccc cccgccacgc 180  
accgcggctc ctgcggtcca gccgcggcca aggaagttac tactcgccca aataaatctt 240  
gaaaagaaac aaacg 255

<210> 1120

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1120

gcgcggggccc tcaggttctc cctatcgaag cggctctatgg agatagttgg ataactcgcc 60  
atctgcccct cgaaagaact catagcgccg ccgatcccag agtccgggac cccaaaaccg 120  
cagctgaagc caaggccagc cctgaccgcg ccgccacttc cgggaagccg cgcgctgcct 180  
cgccattggg cggccgaacg cagccacgtc caatcagagg agtccggaga ccggggggcaa 240  
agtcaaggag catcc 255

<210> 1121

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1121

cgtccgcggc tcctcagcgt ccccttttac ggtctgggcg gactgcgggg gctggggagg 60  
ttctggggac cgggagagtg gccaccttct tcctcctcgc gaagagcagg ccgggcctac 120  
ccgtccgccc gctctgccgt ccgctggccg gccgactgct gcccgatcac tcctgaggcc 180  
gccgttgggc gacagggcgg tgcgggagga ggactgcgca ggcgcagtgg gccaggcggc 240  
ccggcgacca atcgg 255

<210> 1122

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1122

ggaggcgccc agcgagccag agtgggtggct ggtcccgcg cgtgagtggg attggggcac 60  
ttggggcgct cggggcctgc gtcggatact cgggtccgct cgggagcgcg ctggccgcaa 120  
cgagggcggc gcgggcccgg gcgatggcgt ggcttgcgtc tcccgcctcc gggcagggcc 180  
tgcccgccgg gcggggggcg gagggccacg cgggcccagg gtggggccgc ggctgcgcg 240  
gcgggcgggc cgggt 255

<210> 1123

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1123

cgcgagggg gccttataca aagtcggaga agtagctggg tcgctggccg gccagggact 60  
caagccgcct caggtgagcg ctcttgggc ctacttccgg tctcaggtga ggccgccgga 120  
agcgggcact tggccctaag acccgctaca gtgcgtcctc gctgacaggc tcaatcacca 180  
cggcgagggc aaggcgcggg gccgcggccc gcccgagaag cctgagctgg gcccgcacac 240  
cccctgcccg acatt 255

<210> 1124

<211> 168

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1124

ccccacccc tttctttctg ggttttgatg tggatgtctt tctatttggt caggaaattg 60  
tgacgtgtgt tctgggcagg gtttgaggtt ttggaacatt ttctaaaagg gacagagagc 120  
accctgctac atttcctaatt caagaagttg gcgtgcagct gggagagc 168

<210> 1125

<211> 224

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1125

gcgcgttccc tcccgccgc cccaagccc cgcgggcctc gccaccctg cccgcgccc 60

ctccgccggc gccgcctc tgcggcgccc ctttcgggtc agtggagggg cgggaggagg	120
ggcgggggtg cgcggggcg ggggagaagt cctggagcgg gtttgggttg cagtttcctt	180
gtgccgggga tcctgtcccc tactcgccag cgccaggctc ctcc	224

<210> 1126  
 <211> 154  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1126	
ccggcggagg cagccgttcg gaggattatt cgtcttctcc ccattccgct gccgccgtg	60
ccaggcctct ggctgctgag gagaagcagg ccagtcgct gcaaccatcc agcagccgcc	120
gcagcagcca ttaccggct gcggtccaga gccca	154

<210> 1127  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1127	
gcctggtgcc ccgagcgagc cgggagtagc tgcggcggtg cccgccccct ctctccgcc	60
ctccagcggg gctggtctcc ggccgggcac cgtcgcgggc cccctggcc cggccacctg	120
ggaccgtgct ggggagtctg ccacttcct ctctccctg gcccgcaaag ttttggcgga	180
gccatcgctg gggctgagcg cgcggcggg gggagatcg ggagcgcccg atgccggcg	240
gccggagcca ttgac	255

<210> 1128  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1128	
ggcggcgcg ctacctggag gcgcggtggc gggcaggtgc ccgaactgca cggcgatgca	60
gaggtcggtg tccaggggga acttggtgca gtgcagcatc tcaggccagg ggaagccgta	120
ggcctccatg agcggcgcg agccggcgcg cacggcctcg cacagcgagc ggcacgggta	180
gatgggcccg tcgagacaga cgggcgcaaa gagcgagcac aggaagacct gcgtatccga	240
gtggcagcgc ttggc	255

<210> 1129  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1129  
tgggtggccag cggggagcgc ccgggcgcca tcggcgcgtc ctgctccacc agggcgaccc 60  
tgggcgctga gaagcgggaa tcttccttgg ggaccagggc gacgcctcct gctgccgccc 120  
ccggcgggac agccgcggct cctcctccag ccgcgcgcgc acccagagcc cgaggtttgc 180  
ccttcagaag cggacccgca gactcctcgg actcagagcc atcctcctcc tcaacctcca 240  
ccgcagcggc ctgcg 255

<210> 1130  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1130  
gcggcactga actcgcggca atttgtcccg cctctttcgc ttcacggcag ccaatcgctt 60  
ccgccagaga aagaaaggcg ccgaaatgaa accgcctcc gttcgccttc ggaactgtcg 120  
tcacttccgt cctcagactt ggagggggcg ggatgaggag ggcggggagg acgacgaggg 180  
cgaagagggt gggtagagac cccggagccc gagccgaagg gcgagccgca aacgctaagt 240  
cgctggccat tgggtg 255

<210> 1131  
<211> 206  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1131  
ctcggcgatc cccggcctga acgggtagga ggggttgggg gattccgcca tcccttgttt 60  
tgaggcggga acgcaaccct cgaccgcca ctgcgctccc acccacacc agagtaataa 120  
gctgtgattg caggctgggt cctcaccgtc tgctcgccag tcttctcctt tgaggactca 180  
gaagccaagg gttgcgggag gcacca 206

<210> 1132



<211> 242  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1132  
cgcaggggagc gcgcgggaggc ccgcaggggtg cccgcctggc cgcagaggcc gcgacgcccc 60  
ctccgccacc ctcgggccgc cgaaagaacg ggcagccggg aaatcccggtg tccccactcg 120  
tggcagagga cgctgtgggg cgggcgggct gcgggctccc ggcgccttcc cgcagaggcg 180  
gcgacagcgg ccgccccccc cgcggggccg ggccggggaa ctttccccgc ctggagccgg 240  
gc 242

<210> 1133  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1133  
gaaatactcc cccacagttt tcatgtgatc aggaattcag cataggctat aagacggagt 60  
gctccatgtc aatagagaat atttccacag gtgtgctagg cacttgtggt agatgttgca 120  
gggaagtcag gactggggac agcttgggtc ctacttcaag gttacagtct aggagctgag 180  
agtggcaaag tgacctgatt ctacagggta aaagccccag agataaatga cataggtcca 240  
ggtcagccag cattg 255

<210> 1134  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1134  
ccggg'gcac ggggagctgg gcggacggcg gccccgcct cctccgggga cgcggcacga 60  
gacgcgggga cgcgcggacg ccacgctcag cggccgcccc cggcctccgc gccgccttcc 120  
tcccgggagc agccccgacg cgcgcggggc cggaccgccg gggttgtcat ggcagcagct 180  
ccatccctga ccgccacttt ctcccgggtgc cgcctcggag cgagcgggct ggcgggcggc 240  
gcggactgcg cgctc 255

<210> 1135  
<211> 255

<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1135  
gcggcggcgt ccagccagag ccctgtggaa gcggcggcga cacttgggct gggcagtgtc 60  
tctgatgcct cccagcgcca gcgactgtct ttattcccgc cgctgtgggt cgggaaagtt 120  
ccgccagtgc acagcaacca atgggcggag gggtcctttg cccctggggt gcgtcaccct 180  
catgcttcca gaacctggag gatccagcag gaccgtccca cttgtatttg cattgaggtc 240  
attgatggaa atggt 255

<210> 1136  
<211> 230  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1136  
gggtcgccga ggccgtgcgc ttatagccgg gatgacgccg cagttgggcc ggatcagctg 60  
acccgcgtgt ttgcaccgg accggtcacg tgggcgcggc cggcgtgcgc ggggcggggc 120  
ggagcggggc ctggcctggg cggggcaacc tcggcgcacg cgcacagcgc ccgggcgggg 180  
ggcgggggtg tggtgcgcct gccgcgccta cagttcccgc cgctcgcgcc 230

<210> 1137  
<211> 219  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1137  
cgcgctgat gcacgtgggc gcgctcctga aaccgaaga gcactcgac ttccccgcgg 60  
cggcgcaccc ggccccgggc gcacgtgagg acgagcatgt gcgcgcgcc agcgggcacc 120  
accaggcggg ccgctgccta ctgtgggcct gcaaggcgtg caagcgcaag accaccaacg 180  
ccgaccgccg caaggccgcc accatgcgcg agcgggcgcc 219

<210> 1138  
<211> 234  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1138  
 ccgggagcgg gcggaggaag ggccggggcgt ccggcgcaag cccgcgccgc cccagccccg 60  
 gccccggccc ggccccgaca cgccgcttac ctggaagccg gcgacgctgc cgcccacctc 120  
 cctgctgcgt gtcgcaaacc gaacagcggg cgttggccct cctgccggac actcctctgc 180  
 cagcgccgct ctggccgagt cgcgggggcc gaatgtgcga cggggcagag cggg 234

<210> 1139  
 <211> 244  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1139  
 ggggcgcacc gggctggctc ctctgtccgg cccgggagcc cgaggcgcta cggggtgcgc 60  
 gggacagcga gcgggcgggt gcgcccgggc gcggcgccgg cagcgtcggg gacccggagc 120  
 tccaggctgc gccttgccgc cgggtcagac attatttagc tcttcggttg agcttcgatt 180  
 ggtcaaacgg cgccgcccc cccccccgc cccccgccc ccgctcccc ctgcgccgcg 240  
 ctac 244

<210> 1140  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1140  
 gccacgggag gaggcgggaa cccagcgagg cccccgagg ctgggggggac cggccggccg 60  
 gacaaagcgg ggccggggcc ggccggggcg gggccgtgcg gggctcaccg gagatcagag 120  
 gcccgacag cttcttgatc gccgcgccgt tggcgctggc ggccgcggtg ccggccgcgg 180  
 gacgtcccga aatccccgag tgcagctggc cagcgagagg ctctgggccc cgctgcccct 240  
 ggttcgcgcc ctgct 255

<210> 1141  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1141  
 cgggcatcgg cgcgggatga gaaaccaacc tgatacttat cgtgtgccga gttccctcct 60

tgtatcctga ctaagcacag cgaataaccc tgtccttggt ctaaccccag gtcttgaaga	120
aatactgtcc cagctgagcc ccgcgtttac aagatgaaga ggcgccccag atgcgctgaa	180
agaaaggcca aagctcgtgc ctccctccac tgcctgcggt agaacctggt cccgcatagc	240
ttggactcgg ataag	255

<210> 1142  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1142	
acaccgccg cgcccaccac caccagctta tattccgtca tcgctcctca ggggcctgcg	60
gcccggggtc ctctacagg gtctcctgcc ccacctgcca aggagggccc tgctcagcca	120
ggcccaggcc cagccccagg cccacaggg cagctgctgg cagggccatc tgaagggcaa	180
accacagcg gtcctgggc cccaacgcca ggcagcaagg actgcagcgt gcctacctgt	240
gcagctgcaa cccag	255

<210> 1143  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1143	
ccccaacagc gcgcagcgaa ctccactgcc gctgcctccg cccagagac acgttgcagg	60
ccagagcggc cggggcgcg ggcatcacgg gacggcctca cctggcctct tggaggactc	120
ccgaagccc aggccgcaa ccgaaggagg cccgcccc ggaggcaccg cctgcctct	180
ttccgccagc gcccgcagga cccggatgag agcgcacgct tcgggggtctc cgggaagtgc	240
cggcgccttc ggatg	255

<210> 1144  
 <211> 165  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1144	
ccccgctggg gacctgggaa agaggggaa gcttccccgg ccagctgcgc ggcgactccg	60

gggactccag ggcgcccctc tgcggccgac gcccggggtg cagcgggccgc cggggctggg	120
gccggcgggga gtccgcggga ccctccagaa gagcgggcgg cgccg	165

<210> 1145  
 <211> 247  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1145	
cccgggggac ccactcgagg cggacggggc cccctgcacc cctcttcctt ggcggggaga	60
aaggctgcag cggggcgatt tgcatttcta tgaaaaccgg actacagggg caactccgcc	120
gcagggcagg cgcgggcgct cagggatggc ttttgggctc tgcccctcgc tgctcccggc	180
gtttggcgcc cgcgccccct cccctcgcgc ccgccccgc cccctcccgc ctcccattct	240
ctgccgg	247

<210> 1146  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1146	
cccgcgagg ggcacaccag gcgggtgttg gggaggacgc agagggctgg ggctggagcc	60
caggcggggc agggggcggg gcggagctgg gtccgaggcc ggcggggggc cctccatccc	120
acgccctcct ccccgcgcg cccgcccgt ctcggtgac tccgcaacct gtcgtcagg	180
ttctctctct cccggccccg cccggccccg gccccgccga gcgtcccacc cgcccgcggg	240
agacctggcg ccccg	255

<210> 1147  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1147	
gccacgtgc tcgcgccaac ccctacgcc cagcgcgcct tctccacca cgcacggggc	60
tcggacgcat ttccagcccc ggcgttggtt gtggatgctg gacatccacc gcctccaggc	120
agtttcgccg tcacaccgtc gccatctgta gccaaagcaa aacatatact aactgagact	180
ttgcagctct tgtggccact ctgggctcac cggaacatg agtggaagag cccgagtga	240

ggccagaggc atcgc 255

<210> 1148  
<211> 254  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1148  
ggcggagcgg cgaggaggag gagcaggagc gcgcagccag cgggtccacg catctcagca 60  
cttcagacc aactccggca ccttccacac ccctgcccg gctgggggct ccgagagcgg 120  
ccgcgaagcg actccgatcc tccctctgag ccttgctcag ctctgccccg cgctcccg 180  
gctccgggtc gcgcggcggg gtcctgctc ctgcgccccg ggcgcgcttc ccggacaccc 240  
cgttccccgc agcc 254

<210> 1149  
<211> 201  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1149  
cctcgccggg tcccgggtgg gcgcggttcg ctgcctctc agctccagga tgatcggcca 60  
gaagacgctc tactcctttt tctccccag ccccgccagg aagcgacacg cccccagccc 120  
cgagccggcc gtccagggga ccggcggtggc tggggtgcct gaggaagcg gagatgcggc 180  
ggtgaggcgc ggcttgggccc g 201

<210> 1150  
<211> 130  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1150  
caggcgcgcc gatggcggtt ctgaggtgac gccgccaca ccgggcttct ccgggggcgg 60  
aggaaacacc tatgaacct ccggcagcct tccttgccgg gcgccaggta agcagcggtt 120  
ccgggcgcgg 130

<210> 1151  
<211> 203  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1151

ctccccggtt ctgcatcgag ggccttccag ggccagccct tgggggctcc cagatggggc 60

gtccacgtga cccactgccc ccacgcccgc gcgcggggccc cagcagcccc agagctgcgc 120

caacttcgtt cactccgcgc tcaccttacg ggggtccccg cgtgaccgca tggggtagcc 180

cctgctccca cgctcccggc cga 203

<210> 1152

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1152

cgggtccgca gtgggagcgg ctgcttgtgg gcaggggtgga cgcggggcca cgtcttggcc 60

ggcgttttgc ggggtcttcc tgttctgaac gcgcgtaact tttgcctcag tatctcactt 120

cttggaatcc ggcggcgttc acgtgtgtgc tccagagaag ggcgccagag ggtattccct 180

gaaagtgaag ggtcggcgaa agaggagtaa agacggcgag acgcgtccac gcagggggag 240

tctgtgcggt ttgga 255

<210> 1153

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1153

gcagcgccgc ctcccacccc gggcttgtgc tgaatgggtt ctgattgtgc acgggggtgca 60

cactgggcat ttcttgaag gggcacactg acgcgcgcac acacgcccc gacgcgcacg 120

cgccccgcgc gactcacac tcacccccgc gcacactcac ccccgcgcac actcacgctg 180

ccgccgcgct gaggtgcagc gcacggggct tcacctgcaa cgtgtcgatt ggacgggatgg 240

gctcggcgcg tgggt 255

<210> 1154

<211> 203

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1154

cgaccgtgct ggcggcgact tcaccgcagt cggctcccag ggagaaagcc tggcgagtga 60  
ggcgcgaaac cggagggggtc ggcgaggatg cgggcgaagg accgagcgtg gaggcctcat 120  
gcctccgggg aaaggaaggg gtggtggtgt ttgcgcaggg ggagcgaggg ggagccggac 180  
ctaattccctc actcgcccc tcc 203

<210> 1155

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1155

cccgggctcc gctcgccaac ctgttactgc tgcagaacgc caggaagctc agcctgatcc 60  
cacagattag ggtaaaatat cccggggggc cgaagtggaa accggagttg cgtcattgct 120  
cccacccgat atcaccttgg cagcgaccgc ggctgaccac gttcccggcc tgcgcgaat 180  
ctcacccaag ggagctgagt ctcagcttcc ctggctcctg gtcccagatt ccgccttccc 240  
cccccgcccc gtggc 255

<210> 1156

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1156

catggggtgc tcatcttccc ggagctgagg agctggggcg ggcattgggt gctcatcttc 60  
ctggagctga ggagctggga cgggcatggg gtgctcatcc tcctggagct gaggatctgg 120  
ggcgggtgtg ggatgctcat cctcctggag ctgaggagct ggggcgggca tggggtgctc 180  
atcttcccgg agctgaggag ctggggcggg catggggtgc tcatcttccc agagctgagg 240  
agctggggcg ggcatt 255

<210> 1157

<211> 202

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1157



ccgagagccg gagcggggag ggcccgccaa gtcagcattc cagccgggtga ttgcaatgga	60
caccgaactg ctgcgacaac agagacgcta caactcaccg cgggtcctgc tgagcgacag	120
cacccccttg gagccccgc ccttgatatct catggaggat tacgtgggca gccccgtggt	180
ggcgaacaga acatcacggc gg	202

<210> 1158  
 <211> 169  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1158	
ccgctgcagg gcgtctgggc ttctgggggc agagaagact cagcgagtga gcagtccgca	60
agcccgtctg cggcagcggc ggtgctccgt ccagggcgag aagctgcagc gctcgggccc	120
gggtccctcc tgtcgcagca gctcctcgac gagtgcaggg gcagccacg	169

<210> 1159  
 <211> 213  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1159	
gcgctgcccc aagctggctt ccgctgcctg ctctgggctg ggctgggctg ggctgggctg	60
gtaggacctg ctcccagggc gggagggggac acaccacct cagcagatct cagcccatcc	120
ctcccagctc agtgcactca cccaaccca cacgggcca ggagagagtg aagaggaagc	180
attgccctca gaggccttca cggactggcc aga	213

<210> 1160  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1160	
caggatgcca gcgtgacgga agcaagtaac caccaaggca tcaccactgg cgctaaactt	60
ctcacttccg gagtgctgca agcgcagaaa atatacgtca tgtgcggagg cggagcttcc	120
gccctgcgcg tcgtattaga cggaaaccga gcggggccat ttttcatggg tttgcggacc	180
caccagcgaa ggcgaggagt gtcgcagggc catcttctgg ctgtttccgt cgctgcgtg	240
gcccttgac cccgg	255

<210> 1161  
<211> 248  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1161  
ggcggtgcca tcgctccac ttccccggcc gccccattcc agctccggag ctcgcccgca 60  
gaaacgcccc ctccagaagg cggccccccg cccccggccc aaggacgtgt gttgggtccag 120  
ccccccggtt ccccgagacc cacgcggccg ggcaaccgct ctgggtctcg cggtcctcc 180  
ccgcgccagg ttcttgccg ggcagtcgg ggccggcggg ctacactgcg tcgggaggaa 240  
gcgcggcg 248

<210> 1162  
<211> 189  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1162  
gtgggtcgcc gccgggagaa gcgtgagggg acagatttgt gaccggcgcg gtttttgtca 60  
gcttactccg gccaaaaaag aactgcacct ctggagcggg ttagtggtgg tggtagtggg 120  
ttgggacgag cgcgtcttcc gcagtcccag tccagcgtgg cgggggagcg cctcacgccc 180  
cggtcgcgct 189

<210> 1163  
<211> 239  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1163  
ggcggagggc cacgcagggg agacagaggg cctccacagg ggccaggggg aagtgtggga 60  
actgagtctc cccagacga ggcttcactt ggacacgtgt atgtggtcac cgggggaaac 120  
tgagcagttc tgacttcctt tggaaggcgt ggaattagga gagaaatccc ttagtgggca 180  
cacgagtgag tgccccttgg agtccatctg tggaaaggaa gcggtgatag gtttccgca 239

<210> 1164  
<211> 205  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1164

gtccgggggc gccgctgatt ggccgattca acagacgcgg gtgggcagct cagccgcata 60

gctaagcccc gccgcctccc aggctggaat ccctcgacac ttggtccttc ccgccccgcc 120

cttccgtgcc ctgcccttcc ctgcccttcc ccgccctgcc ccgcccggcc cggcccggcc 180

ctgccaacc ctgcccgcgc ctgcc 205

<210> 1165

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1165

cggcctgcgg ctcggttccc gcctcttccc cccccccage ccgcgcgtgc cctctcggtc 60

cccctgcgcg accccaggct cggcccctgc ccggcctgcc ggggtggccc gggggtgggg 120

tgggagccct ttgtctgcgt gggtcgcctc gcgtctctct ctcccacccc acctctgaga 180

tttcttgcca gcacctggag cccgaaacca gaagagttgt cagcccaaca agaatatagg 240

atcacccggcc catca 255

<210> 1166

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1166

gggaaccgtg gcggcccctc ctggccctgg gaggtggtcc cgctgcccc ctgacttccg 60

tgcactgagc ccctggccct gccgcagcc ccggccctgg actcggcggc cgcggaggac 120

ctgtcggacg cgctgtgcga gtttgacgcg gtgctggccg acttcgcgtc gcccttccac 180

gagcgccact tccactacga ggagcacctg gagcgcatga agcggcgag cagcgccagt 240

gtcagcgaca gcagc 255

<210> 1167

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1167

cggggaaggc	ggggaaggcg	gggaaggcgg	ggaaggcggg	gaaggcgggg	aaggcgggga	60
tggtgagacg	gtgaggcggg	gcggggcctg	gggcgcgggc	ggggcgggga	ggggtggggc	120
ggggcccggg	ggcgctggac	cgcggtgctg	cgggacggat	tcccggcggc	tgcgcgggag	180
gctgcgagcc	tggtctccca	gggagttcga	ctggcagagg	cgggtgcagg	gaacccgcgg	240
ctcggcggga	gcgtg					255

<210> 1168

<211> 218

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1168

cctcccgggt	tcaggccatt	ctcctgcctc	agcctcccaa	gtagctggga	ctacaggcgc	60
ctgccaccac	tcccggctaa	ttttttgtat	ttttagtaga	gacggggggt	tcaccgtgtt	120
agccaggatg	gtctcgatct	gcttacctcg	tgatccgccc	gcctcggcct	cccaaagtgc	180
tgggattaca	ggcgtgagcc	accgcgtccg	gcatattt			218

<210> 1169

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1169

agcccgcgca	cgcaccagcg	cccagttcc	ccacagacgc	cggcgggccc	gggagcctcg	60
cggacgtgac	gccgcggggc	gaagtgacgt	tttcccgcg	ttggacgcgg	cgctcagttg	120
ccgggcgggg	gagggcgcg	ccggtttttc	tcaggggacg	ttgaaattat	ttttgtaacg	180
ggagtgcggg	gaggacgggg	cgtgccccga	cgtgcgcgcg	cgtcgtcctc	cccggcgctc	240
ctccacagct	cgctg					255

<210> 1170

<211> 221

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1170

ccccagccac accagacgtg ggagcttagg atgagagcgg cctccgagca gatgatcacc	60
ctggaacgac gccaaacgcg acccctacca gaggactcgc gcatgcgcag cgcagcctgg	120
gccggcgggc tgggcaggat gtagtcgcga gcagcgcacc gggcccacgc cagcgggaatt	180
gcgcatgcgc agggccgcct ctgcctgcgg cctgggctgg g	221

<210> 1171  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1171	
tgggcttcct gcccacatgt tccctctgtt cccaaagggg ttctgcagtt tcacggagct	60
tttcacattc cactcggttt tttttttttt gagactcgtc ctgtcgccca ggctggaatg	120
cagtggcgcg atctcggctc actgcaagct ccgcctcccg ggttcacgcc attctgcttc	180
agcctcccaa gtagctggga ttataggcgc ccgccaccac gcccggttaa tggctaattt	240
tttgtatttt ttttt	255

<210> 1172  
 <211> 153  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1172	
ccgcgctggg ccgcagcttt ccggagcgca gaggaagctg gccagcctgc agatagcact	60
gggaaagaca ccgcggaact cccgcgagcg gagaccgcgc aaggcccctc cagggacctg	120
tcttctaact tgccaggagc gccgagccaa ctc	153

<210> 1173  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1173	
gcatggcccc gtggcctgca ctccagttag gtggctgaac tctgaccagc caagagaaaa	60
ccccctctc cgccccaaac agctccccac tccccagcc tgccccacc ctccccacat	120
tccagtcttt cactgtcgcc ccaggcaact tggctgcccc agaccaagcc ccaccaagaa	180
gctggagggc caggcaagtc caggatgggc aagcagggaa gcacgagagg gagaaacaga	240

ggtgaggaag gaagg 255

<210> 1174  
<211> 239  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1174  
gggcagggga ggggagtgct tgagtattgg ggctacactc accacaagag cagcaaaca 60  
agcactgggt gtggtagagg ctgtccaggg cctggcaggc attgctctgc ccatagatgc 120  
ctttgttgca cttgatacag gtgcctgaga agagaaaagt gtcacactct actccccag 180  
gtcaaaacca gggattccca agctttcctg actgcccttt cctgatgtgc caggggtca 239

<210> 1175  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1175  
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tttctccggg agctttctct tccccgccac gccccgtct ccccgccgt ccccgccgt 120  
ctcgccctcc ctttcattag cccacatct gtctttccca tgggagggag cgcgcgcctt 180  
ccgcccagcg gggcccttag cagagcctct ccaatcctcg gcgcctcccc tacacaggg 240  
tcgctgggcc gttct 255

<210> 1176  
<211> 202  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1176  
ccaccgcgct tcccggctat gcgaaagtga aaacgagggg cgcccaaggc cctgcttctt 60  
cccccttctt cttccccttg ccagccgcg acttcttctt cactgatctc ccgggggcgg 120  
agacgctgag ttccccggag acgagttagt caccaagaag aggcggtgac agagagcgcg 180  
gctcgcgtcg cactccgagg cc 202

<210> 1177

<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1177  
ccgcacatctga ccgcaggacc ccagcgctac caagtgcctg ttcttggacc cccagccgag 60  
cagggggaag catccccagc tcccgcaccc aagtccttgg cgccgctgcc gggccgcctt 120  
ccctgatgcc cagcgcgag cctgccggcg ccgcgccttc tggacggctc tcgcccagc 180  
tcctgagctc agcccgcggc cccgcagtgg ggccgcctca cttactggcg ggggaagcgcg 240  
ggtctggggtt ggccg 255

<210> 1178  
<211> 233  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1178  
gcggacacgt gcttttcccg cattaggggg ggtctcccg cgccgcgccc gccgccacct 60  
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gccccagagc ccgtgcagc tcgggtggtc cctccccggc ccagcgctcg ccgctgctc 180  
ttcgccctgc aagtttcaag aggcagttat ttctgcagc ctccgcgctt gca 233

<210> 1179  
<211> 226  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1179  
gagctggaag agtttgtgag ggccggtccc ggagcggatt gggctctggga gttcccagag 60  
gcggctataa gaaccgggaa ctgggcgcgg ggagctgagt tgctggtagt gcccgagggtg 120  
cttggttcga ggtggccgtt agttgactcc gcggagttca tctccctggg tttcccgctc 180  
taacgtcgct cgcctttcag tcaggatgtc tgcccgaggc ccggct 226

<210> 1180  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1180

ggccgccaac gacgccagag ccggaatga cgacaacggt gagggttctc gggcggggcc 60  
tgggacaggc agctccgggg tccgcggttt cacatcgga aaaaaacagc ggctgggtctg 120  
gaaggaacct gagctacgag ccgcggcggc agcggggcgg cggggaagcg tatgtgcgtg 180  
atggggagtc cgggcaagcc aggaaggcac cgcggaatg ggcggccgcg ggcagggccc 240  
ggccctttgt ggccg 255

<210> 1181

<211> 183

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1181

gcgcccggtc agcccgcagc gcccggccag cccgcagcgc cggagcccgc agtgcgtgcg 60  
aggggctctc ggcaggtcca gacgcctcgc cgagcccagc ccgcagctcc ccgggccgcg 120  
ccgcgcccgc ccacagggcc cacagccctg cttcggctct cagggcggtc acctgggatg 180  
ggg 183

<210> 1182

<211> 195

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1182

cccgccaggc ccagcccctc cctggccagc cccgtccttg tccccaaact gggcccgcgc 60  
ggccgccagg ccgccgggcc tccggggccc tcgcgcatcc ggctccgaaa gctgcgcgca 120  
gccatcatca gggcccttct ggtgttagaa gagaccccg gcacatcttt tcgtcgcgtg 180  
cttccccag agtca 195

<210> 1183

<211> 171

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1183

cgattcttcc cagcagatgg ccccaaagtt cagttcctga attgcctcgc ggagccgcgg 60



gctgcaacgt gaggcggccg ctgccagtcg actcaaccac cggagtggcc cctgcagttg	120
gatagcaacg agaatcctcc aggggtgcag ggcgacggct tcggccgcac c	171

<210> 1184  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1184	
cgcacaccgc cccaagcgg cgggccgagg gagcgccgcg gcagcgggag aggcgtctct	60
gtgggcccc tggcagccgc ggcaggaaag ggcccgaagg cagcgaaggc gaacgcggcg	120
caccaacctg ccggccccgc cgacgccgcg ctacacctcc tccggggcgg gcgtggggcc	180
agctcaggac aggcgctcgg gggacgcgtg tcctaccccc acggggacgg tggaggagag	240
tcagcgaggg cccga	255

<210> 1185  
 <211> 169  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1185	
aggccccgag gccggagcgg cggagggggc ggcccctccc acagggctctt cccaccaca	60
gggcacccag gcgcagcgga gccaggagg ggcttaccgc cgggcaggga cggagcacgc	120
cggggccctg gaggggcgac gctcgctcgt gtccccggtc cccgtggcc	169

<210> 1186  
 <211> 249  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1186	
gggttcgcgc gagcgctttg tgctcatgga ccagccgcac aacttttgaa ggctcgccgg	60
cccatgtggg gtctttctgg cggcgcgccg cctgcagccc ccctaaagcg cgggggctgg	120
agttgttgag cagccccgcc gctgtgggtc atgtagccgc tggccgcgcg cggactgcgg	180
ctcggcgtgc gcgtgttccc ggccgtcccg cctcggcgag ctccctcatg ttgtcgccct	240
gcggcgccc	249

<210> 1187  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1187  
ccagtctccc gccccctgag catgcacgca ctttggttgc agtgcaatgc tctgacttcc 60  
aaatgggaga gacaagtggc ggaaaatagg gtcttctccc acctcccacc ccccatccc 120  
gactcttttg cccttctttt ggtccaagag attttgaaac cgtgcagAAC gagggagagg 180  
ggcaggctgc agccgggcag ataacaaaac acaccccaaa gtgggcctcg catcggccct 240  
cgcatctctg tagag 255

<210> 1188  
<211> 233  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1188  
gaggaggcag cggaccgggg acaccctggg ggaacttccc gagctccgag acctcgaagc 60  
ctggcccttc cttctccctg gtcctacatg cctccctccc ccaactgtccg gggtcctggc 120  
ctcgacgccg aggggtgtcc ctctcctctc ctggtcaggg aacgcagcaa ctgaggcgcc 180  
gcggcccaga tgagacggga agcgctgagc ggccgtgggc gcgggtggaa ccc 233

<210> 1189  
<211> 232  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1189  
ccggctccac ggaccacagg aagggaagg gggcggcctc ggggcggcgg gacagttgtc 60  
ggagggcgcc ctccaggccc aagccgcctt ctccggcccc cgccatggcc cggggcgcca 120  
gtcagagctg gagctccggg gaatcagacg ggcagccaaa ggagcagacg cccgagaagc 180  
ccaggtgagc ggctgggccc cgccggacgg gcgtcggggg tctgggcccga ga 232

<210> 1190  
<211> 247  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1190

ccgccaccgc caccatgccc aacttcgccg gcacctggaa gatgcgcagc agcgagaatt 60  
tcgacgagct gctcaaggca ctgggtaagc tgggtgcagag ggcgcgcccc gacgggggaga 120  
tgcggccccg aggtgccctg gtccccggaag tgccccggtc ctggagggggg tggaagttgg 180  
ggagcccagg caggagggag tccccggggc aatagatcgc cttgtctccc aggcgcaccg 240  
ggtctcgc 247

<210> 1191

<211> 203

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1191

tgagtaagga tgataccgag agggaagaaa aaaataccct ctttgggcca ggcacggtgg 60  
ctcacccttg taatcccagc actttgggag gctgaggcga gcggatcacg agatcagaag 120  
atcgagacca tcctggctaa cacagtgaag ccccatctct accaaaaata caaaaaatta 180  
gccaggcatg gtggcgggca cct 203

<210> 1192

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1192

tgggccaggc acggtggctc acccctgtaa tcccagcact ttgggaggct gaggcgagcg 60  
gatcacgaga tcagaagatc gagaccatcc tggctaacac agtgaaacct catctctacc 120  
aaaaatacaa aaaattagcc aggcattggtg gcgggcacct gtagtcccag ctacttggga 180  
ggctgaggca ggagaatcct ttgaaccag gaggcggagc ttgcagtgag ctgagattgt 240  
gccactgcac tccag 255

<210> 1193

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1193  
 ccggcggaagt gggcggtcc ccaagcgccc aggctgcgca gcacgatggc cgtccccgcc 60  
 ggcgaccgcg tgtgcccga cgtccgcccc ctgcgccccg gggacgcctc tccgcccctc 120  
 cccctgcccc tccgcccacc gcgcggtcgc cccacgcgcg gggcgctgct tcgcccgcgc 180  
 ggaggccgcc tccgccccg ggaccggata acgcctaaa tcagcgcagc tgaggcgagg 240  
 ccgtggcccc cgag 255

<210> 1194  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1194  
 gcggccttac cctgccgca ggcctgtga cagcggcgcc gctgtgctcg cgaccccggc 60  
 tccgggcctc tgccgacctc aggggcagga aagagtcgcc cggcgggatg ggcggggagg 120  
 ctgggtgccc ggcggccgtg ggtgccgagg gccgcgtgaa gagcctgggt ctggtgttcg 180  
 aggacgagcg caagggtgc tattccagcg gcgagacagt ggccgggcac gtgctgctgg 240  
 aggcgtccga gccgg 255

<210> 1195  
 <211> 217  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1195  
 gtggggcccg cgagggtcag gggcatcgcg gccgcgacct cattctgcag cccccgaggg 60  
 tcgcccgaact cctggctgcc ctggactccc ctccctctc cctcccgcct cctcgcccag 120  
 ggcccggctc acctggcggc ggggcgcggg acgccgcggg cgggacggcg gggggctccg 180  
 gggcgctccg gggcggtctt cgcgcatgct ccggggc 217

<210> 1196  
 <211> 250  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1196  
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gctggtgctc aacacgcagc cggccgagga ggtgcggccg cgctggcgcg ggagtgaggg	120
gactccgaga gtgttgaggg cctcctgagc ggatgcgagg cctctgacag ggatggaggg	180
gctctgaggg ggattcaggc ccctgacact acgcgatgac acagagaagg atggcagggg	240
tccccagggg	250

<210> 1197  
 <211> 215  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1197	
gcccattgagg ccccgacagc tgatgcaagg atcgccggcc ttcccgccag agggcggcac	60
agaactacaa ctcccagcaa gctcccaagg cggccctccg cgcaatgccg ctaccggaag	120
tgcgggcgcg gcttccggcg gcgtcccggg gccagggggg tgcgcctttc tccgcgtcgg	180
ggcgggcccg agcgcggtgg cgcggcgcgg ggtaa	215

<210> 1198  
 <211> 184  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1198	
gggattgcca ggggctgacc ggagtgttgc tgggaaggag cctcagctcc gctccaggtc	60
ctccaccagg taggactggg actcccttag ggcctggagg agcaagtcct tgcagggtcca	120
gttccaggct ggtgtgaaac tgaagagctt ccgcattctg cttgggttgg tgggctcggc	180
ccgc	184

<210> 1199  
 <211> 234  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1199	
gccggagcac gcggctactc aggccgaacc ccgaccggga cccggcacgc ggcctcggcg	60
agggcgggcg ggagtgtcct cctccgggac agccggactc ccgcccactt ctgggcggcg	120
gggagggctc caggcccggc tctcccgggc cccgcacgc gatgcgcggc ccctgcagct	180
gctccgtgcc ccgagacgcg cccgaggcct cggacctcca agcggccacc gcgc	234

<210> 1200  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1200  
cctcggcgcc ggcccgttag ttgcccgggc ccgagccggc cgggcccgcg ggttgccgag 60  
cccgtgacg tcagcccggg tttccccccc ccaccggggc ttccccatcc cccgaggctt 120  
cccgggaggg ctgcgagtcg ggggagcgtg cggggtcgcc accatcgga ccccagagg 180  
agagaggact tggggcggga gccgcgcggg acgtgtgcc cctcccgcc cccaccccat 240  
ttacagattg ggaga 255

<210> 1201  
<211> 205  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1201  
cacagcggcg gcgagtgggt cgtgcacgcg gatgcgggggt gggagtgggg gcgcacgcgc 60  
gggctggggc gagcggggccc cggcagtgcg cacacacggc aggggcgggc gacagatgca 120  
gtgctgtgcg cggagcccaa gcgcacaaac ggaaagagcg ggcgcgggtgc gcagggggcg 180  
gcgcccagcg ggcttgcat gcgcg 205

<210> 1202  
<211> 220  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1202  
cacctcgggc ggggcggact cggctgggcg gactcagcgg ggcgggcgca ggcgcagggc 60  
gggtcctttg cgtccggccc tctttccctt gaccataaaa gcagccgctg gctgctgggc 120  
cctaccaagc cttccacgtg cgccttatag cctctcaact tcttgcttgg gatctccaac 180  
ctcaccgcgg ctcgaaatgg accccaactg ctctgcgcc 220

<210> 1203  
<211> 255  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1203

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agacggggcc gggcgagac gccccgcccc gcccttgac ccagcccgct gagtccgcac      60
cgccccgcggt cccggcctgg gctgtgcgca ggagatgggc caagtgaag gtcccttgag      120
cgcagctggg cgcacaccgc aggacggccc ctttcgcacc ggctcgcgag ggaggcgctg      180
tgccccccgt gtgcggcttc tctaccctg ccaggccttc ccagcttccc tgagggtgccc      240
tgctacaccc gcccc                                           255
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<210> 1204

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1204

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gcattcgggc cgcaagctcc ggcccccagc cctgcgcccc ttctctctcc gtcgtcaccg      60
cttcccttct tccaagaaag ttcgggtcct gaggagcgga gcggcctgga agcctcgcgc      120
gctccggacc cccagtgat gggagtgggg ggtgggtggt gaggggcgag cgcggctttc      180
ctgccccctc cagcgcagac cgaggcgggg gcgtctggcc gcggagtccg cgggggtgggc      240
tcgcgcggggc ggtgg                                           255
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<210> 1205

<211> 171

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1205

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gcccgaagg gccggagcgt gtcccccgcc agggcgagcag cccagcccc ccgcacccct      60
attgtccagc cagctggagc tccggccaga tccggggctg ccgcctctgc tgccttccct      120
gagcgggagc ggagcgcaga gaaaagttca agccttgccc acccgggctg c              171
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<210> 1206

<211> 212

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1206  
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 gaacatctgg tgggtgtccc cttcacaaga ctccgcctgc agagtctgtg cagggagttc 120  
 gcacatagga gagcaccggt ccgggagtgc caggctcgtg cccggccggg gagaggagtg 180  
 ggagactaag tcgcagggca agggcaactg ca 212

<210> 1207  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1207  
 ccaccggcgg ccgctcacct cctgctcctt ctcttggtcc gggcgggccc gcctgggctc 60  
 ccactccaga gggcagccgg tccttcgccg gtgcccaggc cgcagggctg atgccccgcg 120  
 tcagctgagg gaaggggaag tggaggggag aagtgccggg ctggggccag gcggccaggg 180  
 cgccgcacgg ctctcacccg gccggtgtgt gtccccgcag gagagtgtgc tgggcagacg 240  
 atgctggaca cgatg 255

<210> 1208  
 <211> 239  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1208  
 cggtcagggg ccccttccc ccttcaagct gactccctcc cacaaggctc ttcagatctc 60  
 gttgtatattt gggattgatg ggggaaaaat ccaaatttgt ttgtttgctt cccttttttc 120  
 ggtggtgggg aaaggtggca ggcttttttg gacaaccatg gaggggtcct ccgtctcggc 180  
 ctcttcgcat atccccctcc gtgatactgc cttccccccc caccgagccc atcgcaggc 239

<210> 1209  
 <211> 240  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1209  
 ggccgaagct gccgccctc ctccaaccg gcgggtcaga tctcgctccc ttctggacaa 60  
 cttacctcgg agaggagtca aggggagagg ggaggggagg gggggagggg gcaagagaga 120



gaggggggag aagagggatc ttctcgctta tttcattggt ccccatctt cagggagcgg	180
gggcagcggc tcctcaaggc ggcggggcgcc ggcgtcttca gagcgccatg cgaaccgcgg	240

<210> 1210  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1210	
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caaggtgggt ctggtgtggg gaggggacgg agcagcggcg ggacctgcc ctgtggatgc	120
cccgccgagg tcccgcggcc ggcggggcca gaggggcccg gacgagctct cctatcccg	180
agttgtggac agtcgagacg ctcagggcag ccgggcccctg gggcccctcgg gcgggagggg	240
gcagttacac ggcag	255

<210> 1211  
 <211> 241  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1211	
cgcgggagga gcggcgaggc cctcacctgg cgccttttat gcccggggcc ggtggagggg	60
ggaagggagg aatggtgtca ggggcggata tctgagccct gaggaatttg caggctcctg	120
agagcaaata tgggctctct cccatttggc caattccctc ccctcccaga gaccagaggc	180
ccctgccctc cagaggtgcc ccgccccggt ccgcgagaaa gctccgaccc gcaactcccc	240
a	241

<210> 1212  
 <211> 223  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1212	
gccaccaga agcccatcac caccagcaaa gccaccacca aagccaccac ccaagccagc	60
accaaggcca ccaccatata ctcccccaaa gccactacca aagctgctgc tgctgctgct	120
gaagccaccg ccatagccgc cccccagccc gcaggctccc ccagaggaga agcgggagga	180
tgagacagac aggccgcccc cgtaggtgct gggggcgcgg cag	223

<210> 1213  
<211> 165  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1213  
gggcatgtg cccacccca cagccccacc ctgccctgcc caccaccca agcccggccc 60  
tgggtcccag ggtcccgcca ggcccgtgg gtggaatgtg gtcattgttc agactgccga 120  
tggcttcac ttcccagaca ggcccagacg gcccggccag cagcc 165

<210> 1214  
<211> 177  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1214  
ccgccagccc agggcgagag tcagggacgc ggcgtcgggc gagctgcgcg gggccggggg 60  
gaggcgcgac cccggaggca cctgtccgga tccctccccg ccttgctcag atctctgggt 120  
cgcgagctc cgaggcgcgc tcggcccgaa ccgcgcgacc cccaagtcgc cgcgccc 177

<210> 1215  
<211> 151  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1215  
gccccctgtc cttttcccg gactctacta cttttacca gagcagaggg tgaaggcctc 60  
ctgagcgcag gggcccagtt atctgagaaa cccacagcc tgtccccctg ccaggaagtc 120  
tcagcgagct cagccgcgc agtcgcagtt t 151

<210> 1216  
<211> 209  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1216  
gtgggggtcc gcaccagca ataaccggg tcttcccgt ccggctcctg cccagtaag 60

cgttggaccg ggagacgcag tgctcagcat cggtcagcag ggggcgcaag gaccccgccc	120
cgccgagtcc gcgccaaagt ttctcctcct ccacccgccc acgctccgca cccctccgc	180
ggctgcccag cccccccacg gcccagca	209

<210> 1217  
 <211> 220  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1217	
gggcccccg gttgcgtgag gacacctcct ctgaggggcg ccgcttgccc ctctccggat	60
cgccccggggc cccggctggc cagaggatgg acgaggagga ggatggagcg ggcgccgagg	120
agtcgggaca gccccggagc ttcattgcggc tcaacgacct gtcggggggcc gggggccggc	180
cggggccggg gtcagcagaa aaggaccccg gcagcgcgga	220

<210> 1218  
 <211> 212  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1218	
gcctgcacag acgacagcac ccccgggcg ggagagcggc ccagcgagg actcggcagg	60
gctcaggttt cctggaccgg atgactgacc tgagcccggg gcccgggcg cgctggccgg	120
gcacaggatg cgcgggcccg agagcgcatc ccggccatcc gcccgcgctc ggccccgcag	180
cgcagctgct gcagatccgc gggggccgcc ac	212

<210> 1219  
 <211> 244  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1219	
ggccgcgccg ggctcaggtt ccaccccccg gagcgcgggg cggagccagg ccggcgccga	60
ggctcagtgc cctccccgct ccgcgggcgc ggctgcgaag ttgagcgaaa agtttgaggc	120
cggagggagc gaggccgggg agtccgctcc agcggggcgc tccagtcctt cagacgtggg	180
ctgagcttgg gacgagctgc gttccgcccc aggccactgt agggaacggc ggtggcgcc	240
cccc	244

<210> 1220  
<211> 253  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1220  
ggggtagtcg cgcaggtgtc gggcgcgag ccgcttggcc tcctccacga agggccgctt 60  
ctcgtcctcg tccagcagct tccactgcg gcccaggcgc ttggagatct cggagtgtg 120  
catcttgggg ttctgctgcg ccattctggcg gcgctgagcg gagctccaca ccatgaacgc 180  
gttcacgccc cgcttcacct tctccagggg cagcgtcccg ggggcccggg ggctcccagc 240  
gccctcccgc tcc 253

<210> 1221  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1221  
tgcaggcgga gaatagcagc ctccctctgc caagtaagag gaaccggcct aaaggacatt 60  
ttctctctct ctctccct ctcatcgggt gaatagttag ctgctccggc aaaaagaaac 120  
cggaaatgct gctgcaagag gcagaaatgt aaatgtggag ccaaacaata acagggctgc 180  
cgggcctctc agattgcgac ggtcctctc ggcttggcg gcaaaccctt ggtttagcac 240  
ttctcacttc cacga 255

<210> 1222  
<211> 163  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1222  
ccggaaatgc tgctgcaaga ggcagaaatg taaatgtgga gccaaacaat aacagggctg 60  
ccgggcctct cagattgcga cggctcctct cggcctggcg ggcaaaccct tggtttagca 120  
cttctcactt ccacgactga cagccttcaa ttggattttc tcc 163

<210> 1223  
<211> 233  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1223

gcgtcggatc cctgagaact tcgaagccat cctgggtgag gctaattctcc gctgtgcttc 60

ctctgcagta tgaagacttt ggagactcaa ccgttagctc cggactgctg tccttcagac 120

caggaccag ctccagccca tccttctccc cagcgttccc cgatgaataa aaatgcggac 180

tctgaactga tgccaccgcc tcccgaaggg ggggatccgc cccggttgtc ccc 233

<210> 1224

<211> 172

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1224

ccggctccgc gggttccgtg ggtcgcccgc gaaatctgat ccgggatgcg gcggcccaat 60

cggaaggtgg accgaaatcc cgcgacagca agaggcccggt agcgaccgcg ggtgctaagg 120

aacacagtgc tttcaaaaga attggcgctcc gctgttcgcc tctcctcccg gg 172

<210> 1225

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1225

cgtcgccggg gctggacgtt cgcagcggcg cttcggaagg gggccccgcg ggagcagccg 60

cccgcgtctc cagcagcttc cccttgccag gcgcgcgcgc cgcgccgtat ccccggtgt 120

ccacctgtgc gtggggggct gtttcccgtc tgtccagccg cgccttcttc tcaggcccaa 180

aggccagcag gaagggtccc ggaggtggct gggggcgctc acctgagaag ctccgctctc 240

gctcagacac cccac 255

<210> 1226

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1226

gggcctgccg cctcgtccac cgtccgtcgt gaggccggca gcggacacgt gctcatccca 60

cggggaggcc ccgcgcagcg cggaggacgc gcctgagaga gaaaaggggt tcgggagaag	120
cccgaggacc cggcccgtga ctgggcgcgc cctatgcaaa tgagcgggcg gggccctcgt	180
gttgctgaac gagggcgggt tcgcgatgta aataagccca gaggtgggggt ctttgagag	240
cacttagggc ccggg	255

<210> 1227  
 <211> 173  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1227	
gcacaccgct ggcggacacc ccagtaacaa gtgagagcgc tccaccccgc agtccccccc	60
gcctctcttc cctgggtccc ctcggtcttc ggaagaaaaa ccaacagcat ctccagctct	120
cgcgcggaat tgtctcttca actttaccca accgacgaca aggaaccagc ctc	173

<210> 1228  
 <211> 216  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1228	
gcaaaccatc ttccccgacg cttccacat aagatgccct cctgcggggc ctcacctttt	60
gacactgcct cccaccgcac tgggggtcaac tctcacccaa gggttccgcc accttccacc	120
accaaaccag cctgtccctg ccacatgcc cccggggccc agcgctcatc ctctgcccag	180
gcccgtcttt gacctctgac cccggcctga cccgcg	216

<210> 1229  
 <211> 236  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1229	
ggccctccgc cgcctccaac cgcgaccag gagctgggca cggcggcagc ggcggcagcg	60
gcggcgctgc gctcggccat ggtcaccagc atggcctcga tcctggacgg cggcgactac	120
cggcccagac tctccatccc gctgcaccac gccatgagca tgtcctgcga ctcgtctccg	180
cctggcatgg gcatgagcaa cacctacacc acgctgacac cgctccagcc gctgcc	236

<210> 1230  
<211> 247  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1230  
caccaccgtg gcaaagcgtc cccgcgcggt gaagggcgtc aggtgcagct ggctggacat 60  
ctcggcgaag tcgcggcggt agcggcgga gaagtcgtcg ccggcctggc ggagggtcag 120  
gtggaccaca ggtggcaccg ggctgagcgc agggcccgcg gcggcgccgg gggcagccgg 180  
ggtctgcagc ggcgaggtcc tggcgaccgg gtcccgggat gcggctggat ggggcgtgtg 240  
cccgggc 247

<210> 1231  
<211> 185  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1231  
cacagcccct tcctgcccga acatgttga ggccttttgg aagctgtgca gacaacagta 60  
acttcagcct gaatcatttc tttcaattgt ggacaagctg ccaagaggct tgagtaggag 120  
aggagtgccg ccgaggcggg gcggggcggg gcgtggagct gggctggcag tgggcgtggc 180  
ggtgc 185

<210> 1232  
<211> 242  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1232  
gcttgatgct caccactgtt cttgctgctc aagggaaacc aagtatatat ttgtggatag 60  
atcctaactc agatgatact gtcagaatat ataagattcc tataccacat cctgaactct 120  
gaaagttgca gttctacgta gaagttcact gagggttgta agagtcagaa tggactccat 180  
ggaagttatg gggtgtgaat caaacctcac aggtgagtca gtggggagaa agaagcatga 240  
ca 242

<210> 1233  
<211> 255

<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1233  
ggccaggccc ggtggctcac acctgtaatc ccagcacttt gggaggccga ggtgggcgga 60  
ttgcctgagg tcaggagttt gagaccagcc tggccaacat ggtgaaacct cgtctctact 120  
aaaaatacca aaaattagcc agtcgtagtg gtgggcacct gtaatcccag ctattcagga 180  
ggctgaggca ggaggatcac ttgaacccaa gaggcgggag ttgcagtgag cagagatcac 240  
gccattgcac cccag 255

<210> 1234  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1234  
gcgggacggg tggcggaag gagggaggcg cggctgggga gagcgctcgg gagctgccgg 60  
gcgctgcgga ccccgtttag tcctaacctc aatcctgcga gggaggggac gcacgtcctc 120  
cctcgcctta cagacgccga aacggagggt cccattaggg acgtgactgg cgcgggcaac 180  
acacacagca gcgacagccg ggaggttaagc cggtcccag cggtccggg gccgggctcg 240  
cagtcgcccc agtga 255

<210> 1235  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1235  
gcttggtccc gccaccaga cccctcccc gggggcgccc agcttggcct ctgggtcccg 60  
gcgcacgagg accccaagtc ggggaggccg ggctgaccgc ggccgcctcc ccgggtccgg 120  
gtaggagggtg ggcagagaag gtgggctgag gggaggagaa actgggctgc gggggtccgg 180  
gagggtggat tccgagaaac tatgtgccca gctgaccctg cccgccccgc cgcgccctg 240  
cagtcgcccg gccag 255

<210> 1236  
<211> 211  
<212> DNA



<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1236

gcggggaagg cgaccgcagc ccacctaccg ctggacgcgg gttggggacc ccgccgcccg 60

gccagctttg ttcggggggc cgcgggcccct cccggggccc cgacccgcct cgggtgaccc 120

gcggtgtccc agcgcgttga cgcagcctgt gatccctcgc gaggcgagga gaaggtcggg 180

ggcttggtc tgcctaattg ccgcccgggg a 211

<210> 1237

<211> 221

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1237

gcgccaacc accacgccc cctaattttt gtatttttag tagagacggg ttttcacccat 60

tttgccagg ctggtctcga accccgacct caggtgatct gcccaaaagt gctgggatta 120

caggcgtcag ccaccgcgc cgccggggac cctctcttct aactcggagc tgggtgtggg 180

gacctccagt cctaaaacaa gggatcactc ccacccccgc c 221

<210> 1238

<211> 179

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1238

aaaagccccg gccggcctcc ccagggtccc cgaggacgaa gttgacctg accgggcccgt 60

ctcccagttc tgaggcccgg gtccactgg aactcgcgtc tgagccgccg tcccggaccc 120

ccggtgcccc ccggtccgca gacctgcac cgggcttgga ctgcagccg ggactgacg 179

<210> 1239

<211> 184

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1239

cgcaggtgcg ggggagcgtg cggccgggtc catgcgcctg cgggcggcgg ggggagacgc 60

gttgcccttc gccgggacca ctgcacctgc ccgcgtgggt aatgcgccc cgcagactc 120

cgcgcacgac tccgcctggg agcgcggttg gggccgttg agtccagcat ggcgcggacc 180

ccgg 184

<210> 1240

<211> 241

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1240

cccgcccaca gcgcggagtt tagtctgcgc gtgcctcgct cgagaacgcg ctcggtgcgca 60

tgcccacaaa ggccaaggag ggagtgcgca ggtcacgtgc gccggtggtc agcgcgcgca 120

ttgcctgccc cggaagtggc cggcgcgcgc cgcggcgcgc ctggggcgcta agatggcggc 180

ggcgtgagtt gcatgttggt tgaggatccc ggggccgccg cgtcgctcgg gccccgcat 240

g 241

<210> 1241

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1241

gcaggggccc gggggcgatg ccacccgggtg ccgactgagg ccaccgcacc atggcccgt 60

cgctgacctg gcgctgctgc ccctgggtgcc tgacggagga tgagaaggcc gccgcccggg 120

tggaccagga gatcaacagg atcctcttg agcagaagaa gcaggaccgc ggggagctga 180

agctgctgct tttgggtgag tccagggctg gtgggcgggtg ggtggtgggc agtgggcgg 240

ggccagccgg caggg 255

<210> 1242

<211> 171

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1242

catgaccgcg gtggcttggt ggaaaagtgg ctcggaaccc caaatcccgg ttagattgca 60

ggcaccgccg gacgctggct cccggaggtt ttagttttcc ctctaccagg agtgtgaaga 120

cacagagact tattgcgctg gcgaagatgg ctgaggcgaa ggcgtgtccg a 171

<210> 1243  
<211> 166  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1243  
gcaggtgctc agcgggcaga cgccccgccc cgccccgcca ggttctgttg ggggcgaggc 60  
ccgcgcaagc cccgcctctt ccccggcacc aggggcgggc ccaggtgcgc ccagggccgg 120  
ggagcgggcg cgcaggtgcc tgccctttgc gcctgcgccc agctcg 166

<210> 1244  
<211> 187  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1244  
ggtgcgccct gcgctggcta aagtgcgcaa gcgcgcgagg ctggggcctt tcaaaccg 60  
gcgcgccggc gccggcgctc aactgcgca agcccagtcg cgctctcca gagcgggaag 120  
agcgtgcgt tccttagcaa cgagcgtttc ctccagcccc gcctccctcc gccacacaca 180  
acccgc 187

<210> 1245  
<211> 222  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1245  
aatttggtcc tcctgcgcct gccagattg tctgagtatt gatcgaacct aggagttcga 60  
gatcagcttg agcaagatag cgagaacccc cgcccctcca cctcgtctca aaaaaaaaaa 120  
aaaatcgtct cagtagcgaa tagtctaacg gagaatgaca gggaaattgg tgatcctttc 180  
tgggcccaag agttagaaat ggctttgcag gccgggcgcg gt 222

<210> 1246  
<211> 200  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1246  
 ggcttccgcg gcgccaatct ccacccgcag tctccgcctc ccgcacctgt ggtccggggc 60  
 tcacggtttc agcgccgcga ggcctcacct gctggctctg gagcctcaag ggaaagactg 120  
 cagaggggatc gaggcggccc actgccagca cggccagcgt ggcccagggc tcgcagcact 180  
 tccggcctct ctggccccgc 200

<210> 1247  
 <211> 202  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1247  
 gccaggagag gggccgagcc tgcacaggag ctctctcggt tttccgagcg ccggcccccc 60  
 ttctctgcct gggaggaggt ggtagagtc ccctgggtgt gtgccccgca gagggagctc 120  
 tggcctcagt gccagtgtg cagaccaatg agagccccag agagaaagac ggtcatttcc 180  
 tcctgcac tcctctggg gc 202

<210> 1248  
 <211> 158  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1248  
 cgagcgccg ccccccttct ctgcctggga ggaggtggtt agagtcccct ggggtgtgtgc 60  
 cccgcagagg gagctctggc ctcaagtccc agtgtgcaga ccaatgagag ccccagagag 120  
 aaagacggtc atttctccc tgcatttcc cttggggc 158

<210> 1249  
 <211> 203  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1249  
 ggttgcgagg gcaccctttg gcccgggggc gcgcaggaga gggcaggggc caggggtttc 60  
 ctgggcgagg gcgcggggac gagcaggaaa aggccggggg ggggggtggaa ttctcggcg 120  
 ggcagggggc gcatgcgccg ggcaccgtgg ggcgggacgt ggcccgggag gagctggggg 180  
 gactgggtgg tgcacgtgcg ggc 203

<210> 1250  
<211> 168  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1250  
accgcgacgc ggtggcgcg gcctgtaatc ccagctactc gggagcctga ggcaggagaa 60  
tcgcttgaat ccgggaggcg gaggttgag taagccgaga tcgcgccact gcaccccagc 120  
ctgggcgaca gagcaagact cctcggtaaa gacaccactt cgtcaccc 168

<210> 1251  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1251  
cgccgccgag cctcagccac gcctctgtgc agcggggaag actcctctcg cgccttctca 60  
gtcagtcacg gatgatgctg acccagcgct ccggggcttt ctaccaagta atcagtcacg 120  
acaaatgcca aaacgaccgc cacaaggagg acaacggaag tcccgcgcgc accgcgcgtg 180  
cgcttacgga aacaccacct ttcggaggcc tcattggctg aaggtcgcgc tcgcccacgc 240  
caggccattc tgggt 255

<210> 1252  
<211> 179  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1252  
gcagcctcaa cctcctgggg tcaagtgatc atcctggctc aaccacccaa gtagccggga 60  
ctacgggtgg ccgccacat gcccgataa tttttttatt tttgtggaga tgggggtccc 120  
acgatgttgc ccagtccagt cttgaactcc tgggctcaag tgatcctccc gcagcagcc 179

<210> 1253  
<211> 150  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1253  
 cttgccgacc cagcctcgat cccctgcggc gtccaggtcc caatgcccc aacgaggcca 60  
 cccccggctc ctctgtggac tcacgaagac aaggtccggc cgctcggggc gcgagagtcg 120  
 cgccatcacc accatthtttc tggatgccca 150

<210> 1254  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1254  
 gcggcggttc gtggtgtccc ggtgcagcca cgcgagagta gaaggggtga aaggggaggt 60  
 gccagtgaa atggagcctg tcccgtgcac tttcgggcat ttcgagcatc ttgtgggctc 120  
 tccaagtcg cggccccctc tctgagagcc acagtcaggt ctgtcctcag gggtcgagggc 180  
 ggctgcgctg gggcctcggc ccgggaggag gcggggggca cggcctttcc attttccctg 240  
 ctccccctctg cagaa 255

<210> 1255  
 <211> 151  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1255  
 ccggactccc ccgcgcagac caccgtgcca ggacagcccg ctccggagtc gggcctggaa 60  
 gcaggcggac agcgtcacct cccgcagcc gccggctggg acccgcggcc agcctttacc 120  
 caggctcgcc cggtcctctg ccgcatggcg g 151

<210> 1256  
 <211> 237  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1256  
 ggccccctgc aagttccgcc tcccgggttc acaccattct cctgcctcag cctccccagc 60  
 agctgggact acaggcacct gccgccacgc ccggctaatt ttttgatatt ttagtagaga 120  
 cagggtttca ccatgttagc caggatggtc tcgatctcct gaccttgtga tctgcccgcc 180  
 tcggcctccc aaagtgttgg gattacaggc gtgagccacc gtgtccagcc tgtaaca 237

<210> 1257  
<211> 194  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1257  
gccacagggga gccctccatt tgtagaatga atgagagtcc aggttatgaa cagtgcctgg 60  
agtgtaggaa caccctcctt tgcctctttg acaggtctgc atcataaacac tttttttttt 120  
tttttgagac agagtctcac tctgtcgccc aggctggagt gcagtggcac gatctcggcc 180  
ccctgcaagt tccg 194

<210> 1258  
<211> 207  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1258  
ccggctgcag gccctcactg gttgggtccg cccgcgaggg tgcctgggc ccggtgtctc 60  
tcctccttct gaagtttgtt cccatccacc cggcatcacc gaccggtttt atcccgtga 120  
ggcctggga gatgggtctg gcgaggctcg taggcgcggg attggctggc tgggtgcagg 180  
ggggtgcggg aaggggagga ttttgca 207

<210> 1259  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1259  
gtcacacctg ccgatgaaac tcctgcgtaa gaagatcgag aagcggaacc tcaaattgcg 60  
gcagcggaac ctaaagtttc agggtagat gcgttgactc gcggtggctc agaagacca 120  
cgcgcgagcc ctggcgcggt cgggcggccg ggggcccgag tgcctctgtg gacggaggca 180  
gcttcccctg cagcgtgtgt gattggggag agtgaaaagg cagcttcac tcgggacccg 240  
cgctgctgcc cactc 255

<210> 1260  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1260

ccctgcgcac ccctaccagg caggctcgct gcctttcctc cctcttgtct ctccagagcc	60
ggatcttcaa ggggagcctc cgtgcccccg gctgctcagt ccctccggtg tgcaggaccc	120
cggaagtcct ccccgcacag ctctcgcttc tctttgcagc ctgtttctgc gccggaccag	180
tcgaggactc tggacagtag agggccccggg acgaccgagc tgatggcgtc ttcgacccca	240
tcttcgtccg caacc	255

<210> 1261

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1261

cctgggggag cgcggtgggg gtaagataag ggatgggggc tccgagggct gggaaactgca	60
ggaaggaaaag aagcggcggg gccgccccggg tcaagggggc acgtggggga gggcgggcag	120
gcgggaccgg gaggtcaata actgcagcgt ccgagctgag cccaggggag cgggcgagga	180
gaaagaagcc tcagagcgcc cggaagcct cgcgcgcttg ggaggcttcc atctcccggg	240
accagctct cagcc	255

<210> 1262

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1262

gtggggccgg gcgagtgcgc ggcattcccag gccggcccga acgtccgcc cgcggtgggc	60
cgacttcccc tctcttccc tctctccttc ctttagcccc ctggcgccgg acacgtgcg	120
cctcatctct tggggcgttc ttccccgttg gccaacgctc gcatcccgtg caactttggg	180
gtagtggccg tttagtgttg aatgttcccc accgagagcg catggcttgg gaagcgagggc	240
gcgaaccggg ccccc	255

<210> 1263

<211> 234

<212> DNA

<213> Artificial Sequence



<220>

<223> probe/primer/pcr

<400> 1263

cgtccaggct gtgcgctccc cgttctcccc tctctcccccac ttctccccac gccttgctcg 60  
tctcccgccc tctccgaca accgctcccc tcacctcca cccctacccc cgcccctcct 120  
ccttctccc cggcattgcgc catatgggtct tcccggtcca gccaaagagcc tggaaccacg 180  
tgacctgccc atttgatatgc cgcggagcgc tccattccgg cccctttgtg gcc 234

<210> 1264

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1264

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caggcgcgat cccccgggtg cagccgagcc cctccgcaga ctctgcgcag gaaagcgaaa 120  
ctaccgggca ggagaaaagg cagcgtctggc gcccgcccc cttccgcccc caccaatcac 180  
cgggcggctc cgcgtcagc caattagacg cggctgttcc gtgggcgcca ccgcctccct 240  
ctgcggggccg ctgct 255

<210> 1265

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1265

aggcggcggc ggtggcagtgc gcacccggcg gggaagcagc agccaaaccc gcgcattgatc 60  
tcgagagttt cagcaacatc cagggactgg gctcagcccc ggagcgagag ggtcgtccgc 120  
tgagaagctg cgccggagac gcgggaagct gctgccataa ggaggagct ctgggaagcc 180  
ggaggacagg aggagacggg agtccagggg cagacgagtgc gagcccgagg aggcagggtg 240  
gaggagaggt caagg 255

<210> 1266

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1266  
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 cccgcccgcg ctccggaggc cgccgggggt cctgcgcctc cgggagggtt gtggccgagc 120  
 gcggcgccgc cccgagcggc cccgcagcgc ccggctcccc gccgctcgct ctccaggcgc 180  
 cgacccgcct gcgtcgccac cctctcgccg ctccctgcgc ccaccttctt cccgcccggg 240  
 tgccgggctg ccgct 255

<210> 1267  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1267  
 cgcggacgcc gctctgcacc tgttgccgcc gtcactcatc ccgccaggcg ggccggggccg 60  
 cgcgggtggc ttggtcagga cctgccattc agcccagtcg ggctccgggtg ctgcgcccgg 120  
 acggcgcccc aagcgggtcc cgccccgct gagcacctcc agcagtggca cagcctctgg 180  
 aggggtccgg gacgaagcca cccgcgcggg agggggcgac ttagcgggtt cagcctccaa 240  
 cagccttggg atcgc 255

<210> 1268  
 <211> 197  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1268  
 tgaacccggg aggcggaggc tgctgtgagc cgagatggca ccattgcact ccagcctggg 60  
 caacaagagc gaaactccgt cccccgaaca aaaaattcaa atgggaaaga gaggcagatg 120  
 gcagagaaca ggggaggggc tgggcaccgt ggctcatgcc tgtaatccca gcactttggg 180  
 aggccaaggc ggggtgga 197

<210> 1269  
 <211> 224  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1269  
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cggaagagg cagcgggtggc gcctgcagac gccgcgcagc ccgggcagcc ccacagcgca	120
agctggctgc cgcgggcgcg ggggctttat cggcgggcgcc gcgcggggccc ccgcccccttc	180
ctgcgcgccc cgcccccggc ccgccttgcc ccgccttccc gccg	224

<210> 1270  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1270	
aggcggccac gggaggggga ggggctggca acggcgccgt gggggcgggg ctcgctttgt	60
gcaaggtccg cgctgattgg gccgtgggcy cgcggggtccc ggctgcgtc gtgggactgg	120
cgtttttggc gccggctgtg aggggagcgc ggggggtggtg gaatcgggcg gtctccgggt	180
cgccaatgtg gctgggtccg taggcttggg cagccttgga gttcctcaga gaccccgcg	240
tcggtcccgg cacgc	255

<210> 1271  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1271	
gacccgagcg gggcgagag tggcaggagg aggcgaatct ccgcgctccg gcgaacttta	60
tcggggtgaa gtttctgctg tcgcctcccc tttgcgtgcy gagctgggct ttgcgtgcgc	120
cgcttctgga aagtcggctc cagtcataac cctgggcygt gcctgcggcc gtcctccccg	180
cgcttctcac ggcacctgac acgcggaggc ggcggccgag ggtggggtgc cggccaccac	240
cacccttgcc gtggg	255

<210> 1272  
 <211> 218  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1272	
agcacctggg gcggggcgga gcggggcgcy cgggccaca cctgtggaga gggccgcgcc	60
ccaactgcag cgccggggct gggggagggg agcctactca ctcccccaac tcccgggcg	120
tgactcatca acgagcacca gcggccagag gtgagcagtc ccgggaaggg gccgagaggc	180

ggggccgcca ggtcgggcag gtgtgcgctc cgccccgc 218

<210> 1273  
<211> 253  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1273  
ccgctcgggg gacgtgggag gggagggcggg aaacagctta gtgggtgtgg ggtcgcgcat 60  
tttcttcaac caggaggtga ggaggtttcg acatggcggt gcagccgaag gagacgctgc 120  
agttggagag cgcgggccgag gtcggcttcg tgcgcttctt tcagggcatg ccggagaagc 180  
cgaccaccac agtgcgctt ttcgaccggg gcgacttcta tacggcgcac ggcgaggacg 240  
cgctgctggc cgc 253

<210> 1274  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1274  
accgccagcg tgccagcccc gccctaccc accagtgtgc cagccccgcc ctccccacg 60  
tcgccgcgcg cccggggggcg gggcctggcg cgcaccgccc gcgcacggcg aggcgcctgt 120  
tgattggcca ctggggcccg ggttcctccg gcggagcgcg cctcccccca gatttccgcg 180  
cagcaggagc cgcgcggtag atgcggtgct ttaggagct ccgtccgaca gaacggttgg 240  
gccttgccgg ctgtc 255

<210> 1275  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1275  
attcttggcc ggggtgcggtg gctcacgcct gtaatcccag cactttggga ggctgaggtg 60  
ggatgatcac ctgaggtcaa gagttcgaga ccagcctggc caacatgggtg aaaccccgtc 120  
tctactaaaa atacaaaaat tagccggggcg tgggtgggtggg cacctgtaat ccagctact 180  
cagaaggttg aggcaggaga atcgcttgaa cccgggagaa ggaggttgca gtgagccgag 240

atcgcgccat tgcac 255

<210> 1276  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1276  
cgcttcccgc gagcgagccg cccagagcgc tctgctggcg gcagaggcgg cggcgaggct 60  
ggcgcgcttg ccgccgtctg ctgccccgc ggaggcgacc tgggcagacg ctgctgggaa 120  
ctttgaaaaa ctttcctgga gccaggcttg ccgcagattc gaggggaagc ctgggccgcg 180  
tcccaccccc tccc aaatcc gagtctgcgg agcctgggag ggctcccagc ttctatcca 240  
aaccgcgccg gggca 255

<210> 1277  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1277  
agccggcgct ccgcacctgc ccctcagcgc ctgccgtccg ccccaccgcc ggggcgcccc 60  
gcactcctgg gcggggccagg ggagcgggct gggcgggcga tggggcacgc gggatccctg 120  
gtcgagcccc ctttcctccc ggggtccacag cgagtccctt gaggaaggag ggacctggga 180  
ggaaaccacc ctctggggcg gctccggcct ccagcccccg ccccgctctca tcgcgcgggg 240  
cgcccgggtgc gcctg 255

<210> 1278  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1278  
cggagcgcgc ttggcctcac aggacagtgg gtgtggctgg ggtgacgggg cagggtaggg 60  
aagactggcc taacaccagc gccctctgcc ccatggctgg ccagggacct gcgagtcctt 120  
ggacacgcac tggccaacgc cagaccccat ctcatcgggt ggggaagtcg cggggacact 180  
gtcagggcgc cgaagtccgg acccggtctc gaggcggctg caggtgaatt gctgcggcgc 240  
cgggtagggg cgggc 255

<210> 1279  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1279  
ggcctcgagc ccacccagac ttggccaagc agccctcggc cagaccaagc aactccctc 60  
ggaggcctgg cagggcccct gctttaccct gccccccacg ccccgccccg acccgaccct 120  
cccaggcagc ccctcagcgt ctgccgcccc cccttggggc ttcccgggca gcccctccct 180  
ccgcccacgc ccagaacagc ccattgctct ggaggagagc aggtgggctt gaccgggact 240  
ggcccctcac cgcgg 255

<210> 1280  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1280  
gccgcgccgt aagggccacc ccagaggcc gaggaggtgg ggctggcctg gctttctggc 60  
caggtggggc ttgtccaacc ccacaaacat cagggctcac cctggatgtg gaagagaagg 120  
agcgaccccc aaaacgaagc ggctggatct gaccttccaa ggctgttg cgacgcaggg 180  
ccccaggag gcagagcgcg cgctggccc gggcgatggg cctcccgtcc cccaggggct 240  
gcctccccgc cgggtg 255

<210> 1281  
<211> 236  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1281  
cggcggtggc ggtgggtcgg cgaccggcgg gccgaagact ggaagcccgg gccgtgagg 60  
ctccgcagcc ccctccgcgc cgccccggcc cgccccgcgc gcgcgcgcgc ttccctcccc 120  
gcgcccgcgc cttcttcccc gcagggtcag cgctggggct ccggccgtag agccacgtga 180  
ccctggcagg ccctgctcgc ggggcttggc gacaaggacg cacgacacgg ggcggc 236

<210> 1282

<211> 194  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1282  
acctgcccag ttactgcccc actccgcgga ataagctctt acccaccgct cctctttctt 60  
aattcatttc tgttatggaa ctgtcgcggc actacaaagt ctctatgtag ttataaataa 120  
acgttatctg gaagagcagc cgacaacaac tttcaagatc tccaattccc cgacccccaca 180  
ctccaactga cgcc 194

<210> 1283  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1283  
ccagcgccc agccgtccag gcggccagca ggagcagtgc caaacccgggc agcatcgcg 60  
ccctgcgcgg ggcaccgagt gcgctgctgt gcgagtggga tccgcgcgct ccttgctctg 120  
cccgcgcgc caccgcgcgc gtctcccggg gccccgcgc acgctcctcc gcgtgctctc 180  
gcctaccgct gccgaggaaa ctgacggagc ccgagcgcg cgggcggggct cagagccagg 240  
cgagtcagct gatcc 255

<210> 1284  
<211> 233  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1284  
ctgctgctgc ccgcgtccga ggctcgcggg cggcgggccc gggtagagtgc acaccggcg 60  
cgctgccggg ctcccggatg tgtcaccttg tcccgctgca gccgagatgc cgggggagcg 120  
gggccttcca caccctctcc gtgggtgtgt ggtgagtgtg ggtgtgtgcg cgtctctctg 180  
cgtccctcgc tgaggtgcct actgtgtctg catgggttgg gtccgcgcg atg 233

<210> 1285  
<211> 182  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1285

actgcttagg ccacacgatc ccccaagcct gggctgccag acgtcgccat cattgttcca 60  
tgcagatcat gcccatcctg tgcagaaggt cactatagga acacatggca caggggaagaa 120  
aacgcccata gaaattcaca tgggtgcttgt ctaaaccgaa ggcaggtgag atccaccac 180  
tg 182

<210> 1286

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1286

gccggacgcg cctcccaagg gcgcgggtcc gaggcgcaag gcgagctgga gaccccgaaa 60  
accagggcca ctcggggagt gtcaggaagc acgactgggc gccttaggac gtccgggcag 120  
acgcggcccc cgaggagccc cagaggagcc ccagaggagc cgctgaccc ggccccgacg 180  
tgcgcgatcg agcccgggct cgccaaagcc cccgcgcccc tccggcccgg acaggccgag 240  
tggacattgt cggag 255

<210> 1287

<211> 152

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1287

cggccagggg gccgagggcc agcatggaca ccaggaccag ggcgagatc accttgttct 60  
ccatggtggc cattgcctcc tctctgctcc aaaggcgacc ccgagtcagg gatgagaggc 120  
cgcccagacc ccgatttta tagggcaggc tc 152

<210> 1288

<211> 243

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1288

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cgcccggcgc gggactccgc gggatctcgc tgttctctgc tctgctctg gggagcccgg 120



cggcagcgct ggagcgaggt aagcgccccg aggggcgggg cgggcagggg gcaaagttgc	180
cgggagagcg gggcagccag gggtcggggc tgaccagggc gactcaggca ccacccgccg	240
gga	243

<210> 1289  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1289	
gcgccccagc ccaccactc gcgtgcccac ggcggcatta ttccctataa ggatctgaac	60
gatccggggg cgccccgcc ccgttaccac ttgcccccg ccccgcccc tttttggagg	120
gccgatgagg taatgcggct ctgccattgg tctgaggggg cgggcccca cagcccagg	180
cggggtcccc gggggcccag cgctatatca ctcgccgcc caggcagcgg cgcagagcgg	240
gcagcaggca ggcgg	255

<210> 1290  
 <211> 244  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1290	
cgtgctgggc gcaggggaaa cagcgacgca cgggacaaaa caagcttgca gaacagcagg	60
gggcagagag gctgtaaaca agccaacggg ctgcacttgt agcggttctg ttgccaatgc	120
cattcagacc ccagtccggg attccgcgct cggggtgcga gaggccgctc ccggggaggg	180
gcgggacccg ggcggggcgg gaggggcggg gcgcccgggc ctattaggtc ccgcgccggc	240
agcc	244

<210> 1291  
 <211> 179  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1291	
gcgcacgcgc acagcctccg gccggctatt tccgcgagcg cgttccatcc tctaccgagc	60
gcgcgcgaag actacggagg tcgactcggg agcgcgcacg cagctccgcc ccgcgtccga	120
cccgcggatc ccgcggcgtc cggccccggg ggtctggatc gcggagggaa tgccccgga	179

<210> 1292  
 <211> 226  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> probe/primer/pcr  
  
 <400> 1292  
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 ctggagcggc cgccaagctc cctcgggcac ccgggttcag cgggtcccga tccgagggcg 120  
 tgcgagctga gcctcctgga ccgggtccgc cgcggacctc ggctgtcac ctgaaggtgc 180  
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<210> 1293  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> probe/primer/pcr  
  
 <400> 1293  
 ggccgagagg gagccccaca cctcgggtctc ccagaccgg ccctggccgg gggcatcccc 60  
 ctaaacttcg gatccctcct cggaaatggg accctctctg ggccgcctcc cagcgggtgt 120  
 ggcgaggagc aaacgacacc aggtagcctg ccgcggggca gagagtggac gcgggaaagc 180  
 cgggtggtcc cgccgtgggc cctactgtgc gcgggcggcg gccgagcccg ggccgctccc 240  
 tcccagtcgc gcgcc 255

<210> 1294  
 <211> 243  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> probe/primer/pcr  
  
 <400> 1294  
 ccagcgccgc aacgcccagg gtgtggggcg gagtaagatg tgaaacctct tcagctcacg 60  
 gcaccgggct gcaaccgagg tctgaatgtt gcgaaagcgc ccagacgcc gccgtgctt 120  
 tccggccgcc ccctcggcta cagccgccat ttccacgctc caccaatcaa atccattctc 180  
 gaggaagacg caccgcccc acacgcccc accaatcgct cgcgctctgg ttgcgctggc 240  
 gcc 243

<210> 1295

<211> 250  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1295  
ccacaagcgg gcgggacggc tggagactgc cgggacagcg gctgccggtg ctacgcgggt 60  
ggtgggcggc ccggaatga gcgccctccg gggacagggg gctctgcggg gcggcgacag 120  
ctggattccc agcgcgcaca aagcctgcgg gaggatccat tgtagcggtc gtcctctccc 180  
gcttagcgag ggcgggcgca ggggcggggg atgtcgaagg gtcaggtttg tccaggccgc 240  
gccaccttcg 250

<210> 1296  
<211> 249  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1296  
cctctggaca acggggagcg ggaaaaaagc tacgcaggag cttggatcgg gcgaagctcg 60  
cgggaaaccg ctctgggtgc gcaggacaaa gacgcgggga cagcggggag ggccggccgc 120  
agcctgccgg gctgccccca cggcgcggaa cgcgcgacgc aacctccacc aggctccgc 180  
gtctggactc ccgccctgcc tctgggcctc ctccgccac cggcggcgtc tcccgcgaag 240  
cccgtggg 249

<210> 1297  
<211> 178  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1297  
gcgggttccc ggcgtctcca aagctaccgc tgccggaaga gcgcggcgcc cgacggagcc 60  
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cttttctgca taggacccgg gggaagccgg gaagccgtta gggggcgggg caagcggg 178

<210> 1298  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1298

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tcagtcagtc ttcttctca gctccttccg actccggaag ctgctgtttg ggcccaggct 120  
ccctgcatcc gagagccctg ggctgactgc ttctgaggcc ccgccccact actgcctgca 180  
gcgggcttcc ttactccgcc tgctggttcc tactggagga gaggccagca tgcttgctcag 240  
gcaccagcag gtgga 255

<210> 1299

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1299

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gttgaagaag tgaagcgccg cgcgcgccgc ctgctgcagg agcctgcgcg ggacccccagc 120  
atcctgaggc tgcccagggt cgtcggggtc cccggacccc gcgggcgccg ccaccggggc 180  
gagcaacagc agcagcgcca gcagcggggc ggtggggcgcg gggcccctgg gcccggaacca 240  
gggagcaggc agccg 255

<210> 1300

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1300

ggcggggcaa gccctcacct gcgccaatca gggcgaggag taggccccgc aggcgcctca 60  
cccattgagg gggcgggctg acagagcaga ggaaggaagg gggcgagggg cctgtggtgg 120  
ggatcctggg gctgtcgggc tgagtatgcc gtgtgggtgg agaggaagcc tcggggaaat 180  
cgcccagggt aagggagggc ttggtgtggg gacttgcaact gggcagaggg gcagcttccc 240  
tgagagcagc taagc 255

<210> 1301

<211> 129

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1301  
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 gggaacgcgc ggctggcggc gtggggacca cccggcagga ccaggcacca gagctgcgtc 120  
 cctgctcgc 129

<210> 1302  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1302  
 cgaatggttc gcgccggcct atatttacct gagatcttcc tcccggacgg caaggatgtg 60  
 aggcaggcga gccggacgcc gctcgcagca ccggagaggg cgcactgcaa aggcggggcag 120  
 cagaccgtgg agagcccggg agcggagctg gacaccgcct cggaggggaag aaatgaggtg 180  
 gcggcggttc ccggaccggg ccatgcccgt cccctgttct cggagcccag cgccgtctcg 240  
 gccaggccag cccgg 255

<210> 1303  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1303  
 ttccgcgggc tgggccctcc gtctaccccc agcggcgagg ggcgggggccc gcgcggggcgc 60  
 agaggcgtca cgcactccat ggtaacgacg ctcgggccga agatggcggc cgaatggggc 120  
 ggaggagtgg gttactcggg ctcaggcccc ggccggagcc ggtggcgctg gagcgggtct 180  
 gtgtgggtcc gaagcgtttt actcctgttg ggcgggctcc gggccagcgc cacatctact 240  
 cccgtctcct tgggc 255

<210> 1304  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1304  
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ccctcacggc tgtccgactt gcgcggcggt ggcggcgggcg gccaaagagca ggcaaaccgc	180
gctccgccag gggcgcagcg aggaaatggc ctcttggcgc acaccccgcc gccgccgcca	240
gccatcgcca ccgcc	255

<210> 1305  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1305	
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tctgtgtgac agaagtagta ggaagtgagc tgttcagagg caggaggggc tattctttgc	120
caaagggggg accagaattc ccccatgcga gctgtttgag gactgggatg ccgagaacgc	180
gagcgatccg agcaggggtt gtctgggcac cgtcggggta ggatccggaa cgcattcgga	240
aggctttttg caagc	255

<210> 1306  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1306	
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agttgaagtt gagtgagtca ctgcgcgcga cggagcgacg acacccccgc gcgtgcaccc	120
gctcgggaca ggagccggac tcctgtgcag ctccctcgg ccgccggggg cctccccgcg	180
cctcgccggc ctccaggccc cctcctggct ggcgagcggg cgccacatct ggcccgcaca	240
tctgcgctgc cggcc	255

<210> 1307  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1307	
cctcaccca gccgcgaccc ttcaaggcca agaggcggca gagcccagg cctgcacgag	60
cagctctctc ttcaggagtg aaggaggcca cgggcaagtc gccctgacgc agacgtcca	120

ccagggccgc gcgctcgccg tccgccacat accgctcgta gtattcgtgc tcagcctcgt	180
agtggcgctt gacgtcgctg tcgcggttag ctacgatgag gcggcgacag accaggcaca	240
gggccccatc gccct	255

<210> 1308  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1308	
cgatgacggg atccgagaga aaggcaaggc ggaaggggtg aggccggaag ccgaagtgcc	60
gcagggagtt agcggcgctt cggttgccat ggagaccagg agtccaaaa cgcggaggtc	120
tttagcgtcc cggaccaacg agtgccaggg gacaatgtgg gcgccaaactt cgccaccagc	180
cgggtccagc agccccagcc agcccacctg gaagtcctcc ttgtattcct ccctcgcta	240
ctctgaggcc ttcca	255

<210> 1309  
 <211> 240  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1309	
ccgcaggccg cgggaaaggc gcgccgagtc ctgcagctgc tctcccgggtt cgggaaacgc	60
gcggggcggg ggcgtcgggc ttgggacagg ggaggatacc agggccacct tccccaaacc	120
aggccgcggg ggcccggcct ccccgatgca gaccacagcg ccctcacggg ctgccctcag	180
gccgcgcagc gggcagccgc cagccgtcac cccggggagc gtccgtgggg tgcccaggca	240

<210> 1310  
 <211> 206  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1310	
gccccagtcc acctctggga gcgcctgcgc cgctccgcgg agagtccgtg gatctcacag	60
tgagcgagtt gggaccagc gaggggaaaa gagaggacct cggcgagcca ttgctggggc	120
ggcgggctgg agggttatct gggaagtcag ccccggcctc ggtcctctcc acgttgctgc	180
ctacgcgtgc tgcccggacg tagggc	206

<210> 1311  
<211> 206  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1311  
cttgccgcc cccgggatgg ggcgaggggt tcccaggggc ttgggagggc ggcttgggag 60  
agagctccgg ctccggaacg aggtgtcctg ggaacactcc cgggtctgta acttcggaca 120  
aatcacgctc gctttcccgg cctcagtgtg ccgttctgta acttgggtct aaccccggct 180  
cgcacacacg gcggggacgc gcacag 206

<210> 1312  
<211> 247  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1312  
cctccatgcg caatcccaag ggcggagagg aatttcagca gctacgagca acagaaagga 60  
aacgagagag tagccagact ctccgcgcat ggagccgacg gcacccacca gcacaccgcc 120  
ggcgccccca gccactactg cacgtccgcc cccgccccgc cccgctccgc ccgggcgacc 180  
tgatgcccaa actggttgca cgggaagccg agcaccacca ggccccgggg tccgaggcgc 240  
cgctgca 247

<210> 1313  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1313  
gcggcgactg cgctgccctt tggtgcccc ttccgctctc gtaggcgcgc ggggccacta 60  
ctcacgcgcg cactgcaggc ctttgccgac gacgccccag atgaagtcgc cacagaggtc 120  
gcaccacgtg tgcgtggcgg gccccgcggg ctggaagcgg tggccacggc cagggaccag 180  
ctgccgtgtg gggttgcacg cggtgccccg cgcgatgcgc agcgcgttgg cacgctccag 240  
ccgggtgcgg ccctt 255

<210> 1314



<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1314  
gggcttgccct ccccgcccct accttccagg atgttgacag ctgggaatga aaggcagagg 60  
gagggagcgc ggggccggag cgccgcctgg gagtgtgccc actgggtggc cgcctgaggg 120  
acccggaac agagggcaaa aagtcctgtg accggacaga gcagagcggg gactgcaatt 180  
cccagaagac cccacggtag gggcgggacc caagatggcc gcttgtctgg ggacaggagc 240  
ggaggccaat acgcg 255

<210> 1315  
<211> 239  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1315  
gcggcccaag gagggcgaac gcctaagact gcaaaggctc gggggagaac ggctctcgga 60  
gaacgggctg gggaaggacg tggctctgaa gacggacagc cctgaggaac cgcggggcgc 120  
ccagatggaa ctcgttagcg ccccgagtgc agacaatccc ggagggggaa aggcgagcag 180  
ctggcagaga gcccagtgcc ggccaaccgc gcgagcgcct cagaacggcc cgcccaccc 239

<210> 1316  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1316  
ctgcgcggct ggcgatccag gagcgagcac agcgcccggg cgagcgccgg ggggagcgag 60  
caggggcgac gagaaacgag gcaggggagg gaagcagatg ccagcgggcc gaagagtcgg 120  
gagccggagc cgggagagcg aaaggagagg ggacctggcg gggcacttag gagccaaccg 180  
aggagcagga gcacggactc cactgtgga aaggaggacc agaagggagg atgggatgga 240  
agagaagaaa aagca 255

<210> 1317  
<211> 174  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1317

caccgcctcc ggacccctcc ctcatcagaa agcccaggct ccgctcgtag aagtgcgcag 60

gcgtcaccgc gcatccagga gccacgtgtc aggagtcacg tgtcaggtgt cacgtgtcag 120

gcgtcacgtg gctggaggcc gttggagcgc ctgcgcagct tttccgcacg cgcc 174

<210> 1318

<211> 229

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1318

ccttcagcc accccgccct gggcgctctt ggcgcgctct gatgacgctc caaggggaaga 60

ggaagtgggg atcggcgagc ggggtgggtgc gcctcggggc gcgggactcg cagccgccac 120

cgccgctgcc gcctctacgg ccgcgtcaga actgaagaga ggaaggggag gagccgagtc 180

gagcctaagc tgccgcccga tcttaccctt gacccgaggg cggcctgga 229

<210> 1319

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1319

cgggacaccg ggaggacagc gcgggagagg cgctgcaagc ccgcgcgcag ctccggggggg 60

ctccgacccg ggggagcaga atgagccgtt gctggggcac agccagagtt ttcttggcct 120

tttttatgca aatctggagg gtgggggggag caagggagga gccaatgaag ggtaatccga 180

ggagggtctg tcaactactt ctgggtcttg ttttgcgttg agaatgcccc tcacgcgctt 240

gctggaaggg aattc 255

<210> 1320

<211> 198

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1320

cctgggttcc cggcttctca gccactggag ctgccagtct caaattaccg gaggggaggg 60

agggcaggcc tggatctcag gatctcggtc ctgcatgcaa tgcaagcctg agctctcccg	120
ccataaggct gcagcgggtgt gggctccttg tgcccagatc ctttgtattc atagggggaa	180
gtggaagacc acgctgcc	198

<210> 1321  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1321	
ggcgggtgatg ggcggaggag gaggaagagg aggaggagga agaggaggag ggggaaaacg	60
atgacaggag ctggggccgg ggggggaaat tggggggacg cgggcggagg cgcggtgcgc	120
gccggcggtg gcgggcacga gccccgcgcc tggaggagga ggagtcaggc cgggtaggag	180
ggctaaggag gttccccgga aggcagggcc cccctcccc cccctcccc cccccacac	240
acacacactc ccctg	255

<210> 1322  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1322	
cagcccgcc ggagcccatg cccggcggct ggccagtgt gcggcagaag ggggggccc	60
gctctgcatg gccccggctg ctgacatgac ttctttgcc ctcggtgtca aagtggagga	120
ctccgccttc ggcaagccgg cggggggagg cgcgggccag gccccagcg ccgcccgggc	180
cacggcagcc gccatgggcg cggacgagga gggggccaag cccaaagtgt ccccttcgt	240
cctgcccttc agcgt	255

<210> 1323  
 <211> 242  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1323	
gcccgcgggg gaatcgagc gagcagcgcg gggcgaggcc gccgcggacg ccccgctcgga	60
tgtgcccttc gctgggcca gcggcgcagg gttggagagg gaagcgctcg tgcccacctt	120
gctcgaggt gcccttgctg acctgggtga tggccttctc cccgcggctc tcggccctct	180

ggctggcggc gcgcagctgg cagccgctcg ggtaggtggt gccgtcgctg ccgcacaccg 240

gg 242

<210> 1324

<211> 186

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1324

gccgcgagcc cgtctgctcc cgccctgccc gtgcactctc cgcagccgcc ctccgccaag 60

ccccagcgcc cgctcccatc gccgatgacc gcggggagga ggatggagat gctctgtgcc 120

ggcagggctc ctgcgctgct gctctgcctg ggtaagttct cccctctctg ctccggccg 180

cccaa 186

<210> 1325

<211> 253

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1325

gcggccccct ccgggctgag cctataaagc ggcaggtgcg cgccgcccta cagacgttcg 60

cacacctggg tgccagcgcc ccagaggtcc cgggacagcc cgaggcgccg cgcccgccg 120

cccgagctcc ccaagccttc gagagcgggc cacactcccg gtctccactc gctcttccaa 180

cacccgctcg ttttggcggc agctcgtgtc ccagagaccg agttgcccc a gagaccgaga 240

cgccgccgct gcg 253

<210> 1326

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1326

cagcagggcg cggcttcctt ttcccggggc ctggggccgc aatcaggtgg agtcgagagg 60

ccggaggagg ggcaggagga aggggtgcgg tcgcatccg gacccggagc cagcgaggag 120

cacctgcgcc cgcggctgac accttcgctc gcagtttggt cgcagtttac tcgcacacca 180

gtttcccca ccgcgctttg ggtaagttca gcctccggc gcgtccccgc gagcctcgcc 240

cacagccgcc tgctg 255

<210> 1327  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1327  
ccgcagcacg ctccgacggg ccagggggcg cgacccctcg cggacgcccg gctgcgcgcc 60  
gggccgggga cttgcccttg cacgctccct gcgccctcca gctcgccggc gggaccatga 120  
agaagttctc tcggatgccc aagtcggagg gcggcagcgg cggcggagcg gcgggtggcg 180  
gggctggcgg ggccggggcc ggggcccggc gcggctccgg cggctcgtcc gtgggggtcc 240  
gggtgttcgc ggtcg 255

<210> 1328  
<211> 199  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1328  
gcggagtgcg ggtcgggaag cggagagaga agcagctgtg taatccgctg gatgcggacc 60  
agggcgctcc ccattcccgt cgggagcccg ccgattggct ggggtgtggc gcacgtgacc 120  
gacatgtggc tgtattggcg cagcccgcca ggggtgtcact ggagacagaa tggaggtgct 180  
gccggactcg gaaatgggg 199

<210> 1329  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1329  
gcgcgggggc aggtgagcat gcgaagggtg gaggccgcgc cccttgctga ggccagctg 60  
gctgctcttt tcgggccggc atacgcgcgc agccgcagct gaggtcacc cgtgaggtg 120  
gtggggaggg gaatggttat tcttgaggca ccgcattctt tgaggaggaa agagccggaa 180  
acacctggtc tctcaagcag gtacagcccg cttctcccca gcaccccggt gtgggcttcc 240  
caaggtcctg cctga 255

<210> 1330  
<211> 178  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1330  
ggcgcggggg caggtgagca tgcgaaggtt ggaggccgcg ccccttgctg aggcgcagct 60  
ggctgctctt ttcgggccgg catacgcgcg cagccgcagc tgaggtcacc ccgctgaggt 120  
ggtggggagg ggaatggtta ttcttgaggc accgcatctc ttgaggagga aagagccg 178

<210> 1331  
<211> 152  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1331  
agtgacgggc ggtgggcctg gggcggccag cggtgactcc agatgagccg gccgtccgcg 60  
ttcgcgccgc ggcggtgcgg ttgtcgcgga tcagcaggat cggagtgcgg ggctgctggg 120  
cggaggcggt ggctgcacca gggacggcgg cg 152

<210> 1332  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1332  
ggcgaccctt tggccgctgg cctgatccgg agaccaggg ctgcctccag gtccggacgc 60  
ggggcgtcgg gtcctgggca ccacgaatgc cggacgtgaa ggggaggacg gaggcgcgta 120  
gacgcggctg gggacgaacc cgaggacgca ttgctccctg gacgggcacg cgggacctcc 180  
cggagtgcct cctgcaaca cttccccgcg acttgggctc cttgacacag gcccgtcatt 240  
tctctttgca ggttc 255

<210> 1333  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1333

cgcggcagcc cgggtgaatg gagcgaggcg gcaggtcatc cccgtgcagc gcccgggtat	60
ttgcataatt tatgctcgcg ggaggccgcc atcgcccctc ccccaaccgc gagtgtgccc	120
gtaattaccg ccggccaatc ggcggcgctc cgcgggcccc ggagtcggct cgggctaagc	180
tggccagggc gtctccaggc agtgaaacag aggcgggggc ggcgggcgat tagcggccga	240
ggcacgctcc tcttg	255

<210> 1334  
 <211> 250  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1334	
ggcgagcgag cgggaccgag cggggagcgg gtggaggcgg cgccacggcg cgcacacact	60
cgcacacacg cgctcccact ccacccccgg ccgctccccg cccgaggggc cgcgcggcgg	120
ccgcggggaa cgatgcaacc tgttggtgac gcttggcaac tgcaggggcy cccgcggctc	180
ctgccccac gccctccgcy cgggccccgc cccccggcc ccgacggcgc ctgcacgccc	240
gcgtcccctg	250

<210> 1335  
 <211> 206  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1335	
ggggcagtc cgggtgtgct ccctctgcct tgagacctca agccgcgcag gcgcccaggg	60
caggcaggta gcggccacag aagagccaaa agctcccggg ttggctggta aggacaccac	120
ctccagcttt agccctctgg ggccagccag ggtagccggg aagcagtggg ggcgcgcct	180
ccaggagca gttgggcccc gcccg	206

<210> 1336  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1336	
cgctggcatt cgggccccct ccagacttta gcccggtgcc ggcgccccct gggcccggcc	60
cgggcctcct ggcgagccc ctcgggggcc cgggcacacc gtctcgccc ggagcgcaga	120

ggccgacgcc ctacgagtgg atgcggcgca gcgtggcggc cggagggcggc ggtggcagcg 180  
gtaaggaccc ttccctcgcc ctgcgcctct ggacctgcag gtgctcgggc gcggcccagg 240  
ccgccccctg tctga 255

<210> 1337  
<211> 213  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1337  
gagccgtgat ggagccggga ggagagggcg atcctcagca gagcttcctt cccttgacaca 60  
cgagctgacg gcgtgaacgg ggggtgctggg gttgggtgcaa ctatagaagg gaaaggctgg 120  
gcgggggtca cacatacctc agtggcaggc aggcaggcgg caggcagagc gcgctctccg 180  
ggcagtctga aggaccgcgg gaatgtggag ggg 213

<210> 1338  
<211> 185  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1338  
gccagggtgt cttggctctg gcctgagtcg ggtatgtgaa agccttttgg ggcaggaagg 60  
ggcaaagtga tacctggccg tcccaccctc tgggtcccaga aggagctctc gctggagcca 120  
ggcagcctcc agtccccctc ctttcagcct tgtcattctc tgcatacctgc ccaggccaca 180  
aagga 185

<210> 1339  
<211> 175  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1339  
cggctccggc ggggaaggag gcgggctgcg gctgcggctg gggctgaagc tggggctggg 60  
gttgggggac tgcccggggc ttagatggct ccgagcccgt ttgagcgtgg tctcggactg 120  
ctaactggac caacggcaac tgtctgatga gtgccagccc caaaccgcgc gctgc 175

<210> 1340



<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1340  
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acggcgtggt aggcgccggc cagcaggcgg ccgcggagct cggcggttggg cacgatgtgc 120  
tccaggccca tggcgccctt ggcccggcgc cgcacgatgg tgctgaagcg cacgttgaca 180  
gagccggcga tgtggccggc gttgaaagcg aagaaggagc ggcagtccag cagcaggcat 240  
tgcgccgctc gctcc 255

<210> 1341  
<211> 217  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1341  
cggctcggtc ctgaggagaa ggactcagcc gcggctgcgg gacccgggca ccgggaggcg 60  
gtggcggcgg cggcggcggc agcagcggcg acagcagagg aggaagagga ggaagaagga 120  
aagaaaaaga agaaccagga ggagtcctca acaacgacag cggggactgc gggaccaggg 180  
taaagcggcg acggcggcga cggcccagca accgtga 217

<210> 1342  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1342  
cgcggggaac ctgcggctgc ccgggcaagg ccacgaggct tcttataccc ggtcctcgcc 60  
cctccagcgc cggcctcgcc cgcgctcctg agaaagccct gcccgctccg ctacggcgg 120  
tgccctggcc aacttcctgc tgcggccggc gggccctggg aagcccgtgc ccccttcct 180  
gcccgggcct cgaggacttc ctcttggcag gcgctggggc cctctgagag caggcaggcc 240  
cggcctttgt ctccg 255

<210> 1343  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1343

ccgccgctgc tttgggtggg gggctgacag ggctgcgcgc gtcgcgctct tggctggggc 60

tgcgcggggc cggggcgctg cgggcggctc agcggcagct gccgcgctct gcgcctctc 120

tgggcgcact gcctgggagc acgagactgg tttgtctgat gctgctgccg gagctgaggt 180

cttgcttga gatccgaacg agacaccacg tcaaccggcg cggggagtcc cgtgaagaca 240

tgagggcgcc aggag 255

<210> 1344

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1344

acctgagccc gcgggggaac cccccccca cccccgggga accccccca cccccgcgc 60

ccccgcctg caagttgtta ccagtaaata aaagggatcc tatttttagca agccacacag 120

cattagaggg caaataatag tttggtggca ggagagcgat gagacgggaa agtgtggggc 180

aaagcttaca gtcattggtc cagattctaa ctggcctgtt agccaaaaag taaggttttc 240

tttacctccg tgttg 255

<210> 1345

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1345

aacgccggcc tcaccggcag acgcgcgcc tcttcccaga tgcgcaggtg accccggcgc 60

gcggcgcggg aaaggggaaga gctccgcgag gccgcgcggg ggggaagcgg gagaagccgc 120

tcttctatt ccactcgcag tctgcgtgtg ggggaaacga gtgcccggcg tatgaaacgc 180

ctaacttcgc gaaataaaga gagacgtata aaagttcaag aattctgtcc agactcaagg 240

gccctttctc attta 255

<210> 1346

<211> 184

<212> DNA

<213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1346  
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 cgcccgccagg cggctcccgcc agtctaaggg acctggcgcg agtccgggaa gcggagggcg 120  
 cagctgcgca gggaaggggg ccggggggcg gaccagggcg cgcgttccgg tcccgggggc 180  
 tggc 184

<210> 1347  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1347  
 tgcgacccgg cgcccaagca gcctgggacc ttgcgcggac ctgacccctt cagaccgcag 60  
 gcagtctggg aggaggtccg gccgggggag gtgcaggatc cccgccgtgt ctctttgacg 120  
 acttggggac tgtcacggtt ctctcccgcc gcccttgggt tcttttgtcc tgcacgcggt 180  
 gcgaaggggc cagcagggaa ggagcagagg atgggggggtg gggttgttgg agccccgcgg 240  
 aggtctggga ggccc 255

<210> 1348  
 <211> 166  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1348  
 ggctctgcgc tgccttttgt ggctcctccc tggctctcta aatgtgacac caggcggatg 60  
 cggggccaca ggacctggg gcttgagtca cacaagaatg tctctgggag acccgagaga 120  
 ctcacagtta tgaaacagga ccatggttct ttggccgggc gcgggg 166

<210> 1349  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1349  
 gcgcggggcg ctccttttgt tccagccgcc gccaccggag ctcccggggc ctccgcgggg 60  
 agcgcgtccc ccgcatccgc ccgacccccg gggctggcac gtgctgcgcc cggctccgctg 120

agggggcgga ggccccgatc tccccgaccc cccttctctg cttagaggag gaggagcagc 180  
ggcagcggca gcaggaggcg acagctgcca gccgaggagg cgcggcggag aggggactgc 240  
ggtcagctgc gtcca 255

<210> 1350  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1350  
ggcccgttgg cgaggttaga gcgccagggt gtaagaatcg ggtctgtgga cctcatacca 60  
gataggcgcg aacgcctctg gcagcggcgt ccaggggggtc cggcggcact cgcggtgggg 120  
ctgcctgggt tgcgggtgac gatctgcggg gtcccgacc cgcccccgcg gagcccgac 180  
ccgcacgtag gcggcgcggc aaaggcacac ctcctcgcg gccgcgaacc cagcgccgtc 240  
ctcgcagcgc ggcaa 255

<210> 1351  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1351  
acccggcatc cgggcaggct gcgcgcgggt gcggggcgag ggcgccgcgg ggactgggac 60  
gcacggcccc cgcgcgggac acggccatgg aggacgcggg agcagctggc ccggggccgg 120  
agcctgagcc cgagcccag cggagcccc agcccgcgcc ggagccggaa ccggagccca 180  
agccgggtgc tggcacatcc gaggcgttct cccgactctg gaccgacgtg atgggtatcc 240  
tggttaagtta cctgg 255

<210> 1352  
<211> 156  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1352  
cccggactgt aatcacgtcc actgggaact ggcgcagtag tggaggggac gcgatcaggc 60  
ccgtggctgc gccagagca tgataagcca gggacctcgc ggcgcaggcg gagggaggga 120

gagcgtcgcg gacccaggcg gggacagggg gagcgc 156

<210> 1353  
<211> 238  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1353  
cgccgccaac gcgcaggtct acggtcagac cggcctcccc tacggccccg ggtctgaggc 60  
tgcggcgttc ggctccaacg gcctgggggg tttcccccca ctcaacagcg tgtctccgag 120  
cccgtgatg ctactgcacc cgccgccgca gctgtcgctt ttctgcagc cccacggcca 180  
gcaggtgccc tactacctgg agaacgagcc cagcggctac acggtgcgcg aggccggc 238

<210> 1354  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1354  
gctgccagct gccgctccgg ctcccacttc ccacctgctg cccgaggaag acttccggga 60  
gaaacgctgt ctccgagccc ccgcgccgcc gcgtcccttc cgctgcagca gcggccaccg 120  
ggtgcgcccc gagccctggg acggcctaaa ccagtatctc gggggccccg cgccgggctc 180  
cggaatggc cgcagcagcc ctggcgaccc gggcccctcg gagtccctt tcaggatcgt 240  
gcaccaagcg cgcac 255

<210> 1355  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1355  
gcgcccacct gcgcctcgcg gggctccccg ggtcccgcca ccgagcgccc aaggcgggat 60  
cccagcgcggt cctgcagccc gccagcttc agggccggcc cggcgcgcgc aggtgcggca 120  
ctcaccggcc aggtgaagcc gaaggggaag cggatggggg tgctgaacgc ggagtcggcg 180  
ccccgcccgt cgggcagact gaaggagtcg acgccagca cgggggtgac ggcgctgccg 240  
taggtgcagg gcggc 255

<210> 1356  
<211> 149  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1356  
cgggccaggg cggcatgaag aagtcccgcc gctacgtgcc cggcacagtg gccctgcgcg 60  
acgttcggcg ctaccagaac tccgagctgc tgatcagcaa gctgccgctc ctgcgagagc 120  
tcggcggtga cgccgctgca cgagagcga 149

<210> 1357  
<211> 250  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1357  
gctgcgacct ggggtccgac ggacgcctcc tccgcgggta tgaacagtat gcctacgatg 60  
gcaaggatta cctcgccctg aacgaggacc tgcgctcctg gaccgcagcg gacactgcgg 120  
ctcagatctc caagcgcaag tgtgaggcgg ccaatgtggc tgaacaaagg agagcctacc 180  
tggagggcac gtgcgtggag tggctccaca gatacctgga gaacgggaag gagatgctgc 240  
agcgcgcggg 250

<210> 1358  
<211> 155  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1358  
gttaggaggg cggggcgcggt gcgcgcgcac ctgcgtcacg cgccggcgcg ctccctttgc 60  
aggctcgtgg cggtcgggtca gcggggcggt ctccacactg tagcgactca ggttactgaa 120  
aaggcgggaa aacgctgcga tggcggcagc tgggg 155

<210> 1359  
<211> 207  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1359

agcgcaccaa cgcaggcgag ggactggggg aggaggggaag tgcctctctg cagcacgcga 60  
 gggtccggga ccggtggcc tgctggaact cggccaggct cagctggctc ggcgctgggc 120  
 agccaggagc ctgggccccg gggagggcg tcccgggcgg cgcggtgggc cgagcgcggg 180  
 tcccgcctcc ttgaggcggg cccgggc 207

<210> 1360  
 <211> 173  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1360  
 cggctggccc cgccactct ccgcgggcgg aagtggcggc gccgagtgag gtaaattgct 60  
 gcccggaagc gcgacctcg gcggttgag gggctaccg gtcttaccag tccgtggcgg 120  
 ggtccccga ggacctcga cgggggagtt gccgagaaaa ggctcgccg gca 173

<210> 1361  
 <211> 225  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1361  
 ggggttgccg tcgcagccag ctgagtgttg cgccaggggg acaggtatgt tccaggcagt 60  
 ggcaagccca acccgagcaa gacctgcgct gaaacggatt ggctgccctc cgcccggagt 120  
 ccgttctccc tgcagcggcc agtgcagagc tcagaggctc agaaactcgc tctcagcccc 180  
 ctggaggcgg agcccgggag ataaggttcg cgctccccac ccgcc 225

<210> 1362  
 <211> 223  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1362  
 ccgcactccc gcccggttcc ccggccgtcc gcctatcctt ggccccctcc gctttctccg 60  
 cgccggcccc cctcgcttat gcctcggcgc tgagccgctc tcccgattgc ccgccgacat 120  
 gagctgcaac ggaggctccc acccgcggat caacactctg ggccgcatga tccgcgcga 180  
 gtctggcccc gacctgcgct acgaggtgac cagcggcggc ggg 223

<210> 1363  
<211> 150  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1363  
ggaccccctg ggcagcaccc tggccaccct tccatccaca acatccagac cacacggcca 60  
agggcacctg accctgtcaa aaccccaaatt ccagctgggc gcggtggctc atgcctgtaa 120  
tcccagcatt tgggaggccg aggcagccgg 150

<210> 1364  
<211> 107  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1364  
gaggcagccg gatcacgaag tcaggagttc gagaccagcc tgaccaacat ggtgaaaccc 60  
cgtctctact aaaatacaaa aattagccgg gcgtgggtgg gcacacc 107

<210> 1365  
<211> 244  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1365  
gcgcggtgcg gcgttgctcc ggcaaccagg gggcggggct gggcggtggca ccgccccgcg 60  
ctccgctgcc aggggcggga gggaggaatg gttgcttcac gccccggggg aagagacggg 120  
aagctcggct ctgggttgcg ggccccggcg tctccgcgtg gggcgcaccg tccgaccccc 180  
ccctcccggg gtgcagcgcc ccgcaccgcc ccgcctcgcc tgggagaagc cgccgggacg 240  
cgcc 244

<210> 1366  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1366  
caggatgcgg cagcgcccac ccgcgcggcg tggagggggc cgggggcggc gctcggcgca 60



gatggcgctc gctgcgagat ggatgctcca gggcgggtaa tcaactcctgg ctcaacacag	120
catcccgggc ggagcggatg ccagatccca ccgctaagag cctgggctgg gaaagcaatc	180
tttccaggca gccccagcc cggcgcccg gccccgaaa gtcccagccc tcggaggcag	240
ggcggggcgc aggga	255

<210> 1367  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1367	
gatgcggccc gcggaggaga gagcaggagg acggacggga gggacctccg cggggagggc	60
gcgcggggga ggcggggagg gaggcgggag ggggagggga cgggtgtggat ggccccgagg	120
tccaaaaaga aagcgcccaa cggctggacg cacaccccg caggcctcct ggaaacggtg	180
ccggtgctgc agagcccgcg aggtgtcttg gagttgggcg agagctgcag acttgagggc	240
tcttatacct ccgtg	255

<210> 1368  
 <211> 193  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1368	
gttctgcgcg cgcccactc cgctgccgc cccgccaggc ctccgggagg tgggggctgg	60
gaggcgtccc ccgctccgc cccctccca ccgttcaatg aaagatgaac tggcgagagg	120
tgagaaggga agagggctcc cggctctctc ggggcgggaa tcagtgggcc agagctcgcc	180
gggtggccgc aag	193

<210> 1369  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1369	
ccgcgcgtgg gcgtagtaac cgccaccgc gccgcccccc gcgccaccac caccgcgcgc	60
tgctcgcct ctgcccagac tgatgagcga gtcgacaaa aaagagtctg cggcggggct	120
ctccgagcat gacattgttg tgggataatt tggcgaagg agcagatagc cctttctggc	180

tgacatttct tgtgcaaaac atgctgaata cgattagcaa tccccccgca ccgcggcggg	240
cgcccgcagc caatc	255

<210> 1370  
 <211> 212  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1370	
acccgcccgg gcagctccag tcccggactc cgcagctcgg agcgcagcca gccacggcca	60
ttgcgggacc ctatttatcc cgacacctcc cctgacgtgg gctcggaacg ctcccttggc	120
agctgcagcc gcggcgcggg ctccccctcg gccgccccac ccccaggccc gtcggtgcag	180
aagcggtgac atcaccccct ctggggccgca gc	212

<210> 1371  
 <211> 221  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1371	
cagcggtcgc gcctcgtcgg gcgacggctg gcagcgaagg ccggagccac agcgcctcgg	60
gtagatgccg cacggctggc cctcgtcag tgcgcacgtc aggcagcagc cgcagcccgg	120
ctcgcgcacc agctccgcgc acacggcggg cggaggcgcg cactggggcca gtgcacgcgc	180
gtcgcacggc tcgcagcgca ccacgggacc caagcccgcg g	221

<210> 1372  
 <211> 237  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1372	
gcaatcgcgc tgtctctgaa aggggtggag aaggggctgg atgagtccgg aagtggagat	60
tggctgctta gtgacgcgcg gcgtcccga agttgacaga tacagggcga gaggcagtgg	120
aggcgggact tggatagggg cggaacctga gactaccttt ctgcgatcac aggattcccg	180
gcggtgactt gaccccggaa gtgggggtgtg aagctccggg gctgggtgcgg cggggga	237

<210> 1373

<211> 230  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1373  
gagcgcccgcg cgttgatgcc ccagctgctc tggccgcat gggcactgca ggggctttcc 60  
tgtgcgcggg gtctccagca tctccacgaa ggcagagttg ggggtctggc agcgcgttct 120  
ggactttgcc cgccgccagt gcgattctcc ctcccggttc cagtcgccgc ggacgatgct 180  
tcctcccacc caccgcccgcg gggctcagag agcaggtccc cgcaccgcgc 230

<210> 1374  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1374  
catggcccgcg tgcgcctct cgcgggttg gggagagaag ctctggagc ggccagatac 60  
ctgttggtc ctgagcagca tcgccagt ggcctccgt caggaaaagc agcagaatcg 120  
acagccccag ggggcgagcg ggggtccatg tgcagggggc cgggcggccc gctgggcaag 180  
gcgtccgaga aagcgcttg cgggaggagg tgcggggtt tctgctccag gcggcccggg 240  
tgcccgcttt atgcg 255

<210> 1375  
<211> 216  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1375  
gggggcgggg tgcaggggtg gaggggcggg gaggcgggct ccggctgcgc cacgctatcg 60  
agtcttcct cctccttct ctgccccctc cgctcccgt ggagccctcc accctacaag 120  
tggcctacag ggcacaggtg aggcgggact ggacagctcc tgctttgatc gccggagatc 180  
tgcaaattct gcccatgtcg gggctgcaga gcactc 216

<210> 1376  
<211> 179  
<212> DNA  
<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1376

cgaccctgcg cccggcagtc cccggggggc gtgcgcccgg cccaggctcg gaggtccagc 60  
ccagcggcgg ctcaggctgc gcgcctggct cccagcctca gtttccccat tggtaaagca 120  
ttgacggtgg ttgcggacgg cttctgcgga cagagccttg ggctccgacg tctgcgcgg 179

<210> 1377

<211> 214

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1377

ggcttcaagt ccacggccct gtgatgggat gtgggcaggg cctgagacag gccgaaccca 60  
actcttcaca gggccgaatt ctttgcccgc agcccagcac cccgaaggag cttgcctcgg 120  
cttcaaggcg cacctaattg gcaccggatc gctggggcgc tgaggatgcc gctccggggc 180  
ctccacgagg cggcctcgcc acgcgcctcg gccca 214

<210> 1378

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1378

ccccacctgc ccgcgctgct tctacctgaa actggccaag ggcccagagc cggaccggag 60  
ccgtgacttc cctccgccgg ccacggggct gcccggatcc gccgggttat gtcgcttggc 120  
tttgggctca ggggtcaccg tgggcagagg ggggtgccgg ggtcgcggac tgccaccagg 180  
ttgaggaaag gaggggcctt ttggctgggg aaagagcgtg gtgggggacc cgcggccgat 240  
ggaatccctg gggca 255

<210> 1379

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1379

gcgcgcggag acgcagcagc ggcagcggca gcatgtcggc cggcggagcg tcagtcccgc 60  
cgcccccgaa ccccgccgtg tccttcccgc cgccccgggg tcaccctgcc cgccggcccc 120

gacatcctgc ggacctactc gggcgccctc gtctgcctgg agattgtaag tggggccgcc	180
ggagcgaggg tcgcgcgggg agcgaggaca ggcggcggca tccttgcccc ccgggctgtc	240
ttcctctgcg tccgc	255

<210> 1380  
 <211> 242  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1380	
gtgagccggc gtcctgatg cggagaggtg cggccatgtc ctggctggga gccaagcgcc	60
ctcgtcggg cagtcggagc gaactgtctc ccgcgcgtc cgcagccgg gccctccgc	120
tgggcccacc ccccgagggg cggggccaga gcgggcggca ccgcctctc cccgtgtct	180
gggtcgcagg ccttagcgac gggctgttct ccggccccgc ccattccca ggctccgcc	240
cc	242

<210> 1381  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1381	
tgccgcggg gtgccaagg aagtgccagc tcagagggac catgtgggcg caggcaccca	60
ggcggcgccg ggaggcctct cgggactcca gggctgtccc tcccgcaggc tgtccttcca	120
cctccacccc aggccaacgc cctcccgcca gccaggggc ctgtgtctc gagtccttcc	180
tgggcaccct ggtcccatcc ttagccctgc ccgaggggccc cagccctgct ccaaaagggc	240
tgtggctcca cccac	255

<210> 1382  
 <211> 232  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1382	
ctgctgcgcg cgctggctct tctgcgaggc ctgcttgagc ttgttgccgc ctttgggctc	60
cgggccctcc agctcgtccc tgcagcgccg cggccgctcc tcgtaggcca ggctggaggc	120
aagctccttc tcctcaaagc tgcgctgcag cttctggagg gcgccctccc tctccaacag	180

cttctgctcc agctcctgga tgctgcactc gtccgtggag atgggggagc gg 232

<210> 1383  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1383  
ctggcgggccc aggtcgtctc tgcccaaccc ggggacccat ctcttcccc gactccgacg 60  
actggtgctg cttgcccga catgcccggc cgcaggcgac ccggggccacg ccccccgcc 120  
gtgtccccct ctctccctgc cctctccagg cgccaggcac gctcttcccc agccagggac 180  
cgcgggcgggg actcaccaac agcaggaccg cggcgacaac gagcacaagg gtcttgggga 240  
cccgggggccc aggcc 255

<210> 1384  
<211> 242  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1384  
agcgccccgg ccgcctgatg gccgaggcag ggtgcgaccc aggaccagc acggcgctcg 60  
gaaccatacc atggcccga tccccaagac cctaaagtcc gtcgtcgtca tcgtcgcggt 120  
cctgctgcca gtgagtcccg gccgcggtcc ctggctgggg aagagcgcac ctggcgccgg 180  
gagggggcag ggagacgggg acacggcagg gatgcctggc cctggtcacc tgcggccggg 240  
ca 242

<210> 1385  
<211> 191  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1385  
gccgcacggg acagccaggg ggagcgcgcg ctctgctccc tcgcgggccc gtcgtcctg 60  
cccagccccg gcaccccact cttcccctga ctccgacggc gggttcgtcc tgcccagaca 120  
tgcccggccg caggcgaccc gggccaagca tccccaccgt gtccccctct ctccctgccc 180  
actcccggcg c 191

<210> 1386  
<211> 203  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1386  
cccggacatg ccccgccaca agtgacccgg gccaggcacc cccgccgcgt cccctctct 60  
ctctgcccc tcccgggtgcc aggcgcgctt ttccccaggc aggaccgcgg tggggactca 120  
cctgcagcag gaccccgacg acgacaaact tgaaggtctt gtggacccgg agccgagggc 180  
tggcttcccc cgccggcctg ggt 203

<210> 1387  
<211> 251  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1387  
cgggggccgc cgcctgactt cggacaccgg ccccgcaccc gccaggaggg gaggggaagg 60  
gaggcgggga gagcgacggc ggggggcggg cggtggacct cgcctcccc ggcacagcct 120  
gctgagggga agaggggggtc tccgctcttc ctcaagtgcac tctctgactg aagcccggcg 180  
cgtgggggtgc agcgggagtg cgaggggact ggacaggtgg gaagatggga atgaggaccg 240  
ggcggcgggga a 251

<210> 1388  
<211> 252  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1388  
cagtggcggc cctcggcctg cggtcggagg cggcgcgggc ggggagggcg cgctgcgggc 60  
tgggtgcgcc ccggctcccc gaggtgcggc gagcaggaag gcgcggggcg gcgggcgcgc 120  
ggcactgact ccggaggctg cagggctgga gtgcgcgggg ctctacggc cgagccctcg 180  
gagccgcccc gcgcagccaa tcagctcccc gcggggcgag ccgcactcgt taccacgtcc 240  
gtcaccggcg cg 252

<210> 1389  
<211> 166

<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1389  
gcccggcgcg gataacggtc cggcgggagg acacggcggc ccctacagca tcgcgggcggg 60  
ccaggctcgg gcagggggccg tgctcaggctg cggcagacgg acggggccggc gcctctgaag 120  
tcacccggct cctttacgaa ctgagcccgt tttggctggg aggggtt 166

<210> 1390  
<211> 219  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1390  
gctccgggtg gggagggagg ctggcagctc acccccgggg gcgaggggtc tgcgttagcc 60  
gtagccacgg gagcccgggc ttctgggacg ctacagccgtg cgctaccggg tgcagctgct 120  
ttctcaccag ctgcgggtg ggtcctgccg cggctcggcg acccgcgccc ccttgcgagc 180  
gaccagcgt gaaaccagcc caaagggcgg cctcgcccg 219

<210> 1391  
<211> 235  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1391  
gcctggggcg agaacggggt ccctcggcag gaccctcgcc gcgacagcct cagcagggga 60  
tcgtcgagca aaagcccgcg ggaatgctcc tttctggggc cccgccctcc cggccgacag 120  
cttttaggta gacgtggagg cgactcagat cgcctcgcgg ttcccgggat ggcgcggctc 180  
cccccaacgc gaggtgcct ggggcacccg gctcttttcc tgggcgtccg cggcc 235

<210> 1392  
<211> 215  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1392  
ggtcctaadc cccaggctgc gctgacagga ttaggctccg ttctctccca taatgttccc 60



aggacgagcc tcatggggac gaactacaaa tcccagcatg caccagtctt cgcccgcccg	120
gcgggagggc aacggctgac caggaccgca ggcaagcacc gcggcgacgg ttccagccag	180
gaaaatgaga gcctcttggg ccacgttcca aacgg	215

<210> 1393  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1393	
ccgcgtcccc ggctgctcct cctcgtgctg gcggcggcgg cggcggcggc ggcggcgctg	60
ctccccgggg cgacgggtga gcggcggcgc ggcgggcggg cgactgcggg gcgcgcgggc	120
cggacccggc ctctggctcg ctctgctct ttctcaaaca tggcgcgggg ccggggggcg	180
aggtggcggc gccggggccc gggccgggct ctcgtggcgc cgcgcggctc ggcggtgcc	240
gggcgaaccg caagc	255

<210> 1394  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1394	
ggcagggctg acgttgggag cgctatgagc tgccgggcag ggtcctcacc gggggcttcc	60
tctgcgggcc agggctgccg ggcgccaccg ggacgcgagc gcgcacgcct cggcccggcg	120
gccgcgctcc tcgcaccgcc ttctccgcag gtctttattc atcatctcat ctccctcttc	180
cccttctcct tctcctttgc ctctttctcc ttgctctcct tctcctctc ttcctcccc	240
tcctccacca ccacc	255

<210> 1395  
 <211> 248  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1395	
ccgtgggcgc aggggctgtg gccggggcgg tgggcgggcg gtgccgccag gtgagactgg	60
ctgccgtggc gcggagctgc gaactggctg gcggcgcaag gcgcggactc cggtgagttg	120
tgtggagcgc gcgcggccat gggcgcgggc cacgggcggg tgggaggggtg gggggccaga	180

ggggcggggg agggtcactc ggcgggtccc ggtgccgccc cgcggcgcca ccgcctctgc 240  
tccccgcg 248

<210> 1396  
<211> 159  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1396  
cctgcgcacg cgggaagggc tgccggaggg gcccgtaggg aggcgcgcgc gcgggcgggt 60  
cagggccccg gttcctctcc ctcccgcta ccgccacttt ccgcacctgt gtgcgcccc 120  
acccccacca ccattctccc accctcagcg cgggcgccc 159

<210> 1397  
<211> 199  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1397  
gcggacgcag ccgagctcaa agccgctctg gccgcagggg gcggacgcgt cgcggagtcc 60  
tactgcccc gcctcgctct ggcagagtgg ggagccagcc ggcaaagaat tccgttttca 120  
gctggggcaa ggggccggcg tctccccacc cccttaggct ccgccccctg tccgctgtga 180  
tcgccgggag gccaggccc 199

<210> 1398  
<211> 227  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1398  
gacctatggc ggggcaggcg gcggcgctgt cgggcgggca ggggtggcgg gaggcggtgg 60  
cgcagcgagc agcggcctcc agcgtggtg gtcctcttta taggagcgt ggagacacgg 120  
gccccgcccg ccctgcagcc ccgcctgca gtcccgagc gccgaggagt gcgcgcccc 180  
tcgccccgcg ccacactcgg ctgggaggct ggtgcggacg ccgggtg 227

<210> 1399  
<211> 255  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1399

ccgctccccg cccctggctc cgcttgccc cactcccctc cgcgcgctt ccctcttctc	60
ccccgctccc cgcggaagct cctctctttc ccagtgggac aactttatgc tgaaatttct	120
tttctgccct tttttgggat gtttcccat tgggagggcg agccgggctg cggcggggaa	180
ggcgaggggc gaggggaaga gtcactgagc tgcggggcat aggggggtccg gggcgaggtg	240
ccttctccca ccag	255

<210> 1400

<211> 191

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1400

tgtgccgcgc ggttgggagg agggctgtga gcgtgagcgt gggagcgctg ggggctctgc	60
tcgctgtctg ctctgaagtt gttccccgat gcgccgtagg aagctgggat tctcccatcc	120
ggacgtggga cgcaggggag gggtaggttt caccgtccgg gctgatgact cgtggcctcc	180
ggggctcctg g	191

<210> 1401

<211> 184

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1401

cactcacgct ctcagcccgg ggaatcccag cggggaggag ggagggaggt cgttttcttc	60
agctccccag gtggtctgtg ctgggtgtgc tgacggctct tttgggaaaa cagggtccacc	120
tttgccagcg taattcagaa agagatgtaa ttttctgaga gcacacacct gggcaggaga	180
tcgc	184

<210> 1402

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1402  
 ggcaagcggg cttcggaag aatgcagttg gtgaggaagc tcggcgaggc gtgcccgtgc 60  
 agctgccctt ggccctgact gctggtgcga ggcagtgcac gactcagctg gccggggcct 120  
 gctgtcccgc cggtgccacg cacctgcaga cggccgggct gtgccatctc ctgggcccgt 180  
 ccgggggctg gggcggggcg aaaaagaaaa agctctgac tctgccttcg cctcgcgag 240  
 ctgtgcggcg agccc 255

<210> 1403  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1403  
 cccgcgggcc gggtgagaac aggtggcgcc ggcccagcca ggcgctttgt gtcggggcgc 60  
 gaggatctgg agcgaactgc tgcgcctcgg tgggcccgtc ccttccctcc cttgctcccc 120  
 cgggcggccg cacgccgggt cggccgggta acggagaggg agtcgccagg aatgtggctc 180  
 tggggactgc ctgcctcggg gaaggggaga ggggtggccac ggtgttagga gaggcgcggg 240  
 agccgagagg tggcg 255

<210> 1404  
 <211> 239  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1404  
 ggcggcggct ggagagcgag gaggagcggg tggccccgcg ctgcgcccgc cctcgccctca 60  
 cctggcgcag gtaggtgtgg ccgcgtcccc taccgggccg ggactttctg gtaaggagag 120  
 gaggttacgg ggaacgacgc gctgctttca tgccctttct tgttctacct tcacggccg 180  
 aggtaaaagt gctgaaacca tgtgaataaa atacaggtgg gttccgccag cttcgctcc 239

<210> 1405  
 <211> 253  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1405  
 gggccccggg actcggcttg cacgagccag tctggggacc ggggaggcgg ggagagggaa 60

ggggaaagcg cggacgcggc ccaaacctcc agtagccgca gccgccgtcg ccgagtaggg	120
ccgggcagcc agccgggcct ggcgagcat cagtgccgcg tgccgcttcc gctcgatact	180
cgcccgacc gaggcaggca gctccgcggg ttgctctaaa gccgccgcct ccggcaaagc	240
cccgtcggcc gcc	253

<210> 1406  
 <211> 209  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1406	
acggaatgtg ggggtgcgggc ctgaatatta taaacaaaac caaaaaaacac tggctggaaa	60
ggaagtaagc ggattcttcg taaagtctat caaaagtctt ttcgtttccc cctccccctt	120
tccccaccgc ccacaaaaat gagccgcgtt tgagcacctc aggtctggaa agccggccag	180
gagtggggga gaccgaggca cccgcggcc	209

<210> 1407  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1407	
gcggtctgtg ccgaggctcc tggtttccac cgccgccctc ggggatcatg ccgccatgc	60
ggttcatgcc gttctcgtgg ttcacaccgc cctcagggtt catattacc atgaggcctg	120
gagctccttg gccaacatgg ccttctgcgc ttgatgctgc cccagctga ggtgtggggc	180
ttatTTTTTAC ctggtataca ctcaggcagt agaacacggt gtcgtggacg agcgaacgcg	240
ccatggctgg agcgc	255

<210> 1408  
 <211> 200  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1408	
ccgctgcgcg agggaggggg cccgaggcgc ccccggcccg ccctcctccc ggtcttcgga	60
tccgagccgg tctcgggaa agagcctgcc accgcgtccc cgcagccacc ctctccgcgt	120
gcccggccct ctccagtggc gggggcacgt gggcgcgcg ggtgcgtggc aagccgcccc	180

tctccccacg cccgtccggc 200

<210> 1409  
<211> 230  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1409  
ggggtgcggc gtctggtcag ccaggggtga attctcagga ctggtcggca gtcaaggtga 60  
ggaccctgag tgtaaactga agagaccacc cccacctgta acaaagaggg cccactaag 120  
tcccgtttct gcatttggtc ctgagaggct ccggtaaagc cgtccggcaa tgttccacct 180  
ggaaagttcc agggcagggg aagggtgggg ggaggggcag tcgcggggga 230

<210> 1410  
<211> 246  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1410  
gccgggggaa atgcggcctc taagctctcc gctgaggcgg cttggaagga atagtactg 60  
acgtggaggt gggggaggtg gctggcccgg gcgaggccca gggagagggg gaggaggcgg 120  
gtgggagagg aggagggtgt atctcctttc gtcggcccg ccttggttct ctgcactgat 180  
ggtgggtgga tgagtaatgc atccaggaag cctggaggcc tgtggtttcc gcacccgctg 240  
ccaccc 246

<210> 1411  
<211> 230  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1411  
tgcttgtag gactgacggc tgctttgtc ctctctctct ccaccccgcc tccccccacc 60  
ctgccttccc cccctcccc gtcttctctc ccgcagctgc ctcaatcggc tactctcagc 120  
caacccccct caccaccctt ctccccaccc gcccccccg ccccgctggc ccagcgctgc 180  
cagcccagat ttgcagagag gtaactccct ttggctgcga gcgggagagc 230

<210> 1412

<211> 184  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1412  
gcgcggggcgc ctcgatctcc cgcgcgcgcgc cgtgcgcgcgcg accccccttt ggccccctac 60  
cctgcagcaa gggtagcgtg acgtaatgca acctcagcat gtcagcagca atataaagga 120  
gaatgaggcg gcgcgcctcc cagacgcaga gtagattgtg attggctcgg gctgcggaac 180  
ctcg 184

<210> 1413  
<211> 240  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1413  
cccggctggc cggcgctcct cgcaggcggc gtcccggctc ggagcgatct gcgcgcctcg 60  
ccccgcggcc gcgcctccc cgaagccctt gctttgttct gtgagcgctt cgtgtcagcc 120  
aggcgcagtg agctcacggg ggcgtcccgc gtccgcattc tcccaggagc tggggagccg 180  
ctcgctgggc gcggaccgc tgctgacgc tgcaaactac acggtttcgg tccccgcgc 240

<210> 1414  
<211> 129  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1414  
ccggggctgg gacggcgctt ccaggcggag aaagacctcc gcgggccgcgc gcgggccttc 60  
cccctgcgag gatcgccatt ggcccgggtt ggctttggaa agcggcggtg gctttgggccc 120  
gggctcggc 129

<210> 1415  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1415  
gggcgggggtg gggctggagc tcctgtctct tggccagctg aatggaggcc cagtggcaac 60

acaggtcctg cctggggatc aggtctgctc tgcacccac cttgctgcct ggagccgccc	120
acctgacaac ctctcatccc tgctctgcag atccgggtccc atccccactg cccacccac	180
ccccccagca ctccaccag ttcaacgttc cacgaacccc cagaaccagc cctcatcaac	240
aggcagcaag aagg	255

<210> 1416  
 <211> 255  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1416	
gtgcggttg gcggggccct gtgccccact gcggagtgcg ggtcgggaag cggagagaga	60
agcagctgtg taatccgctg gatgcggacc agggcgctcc ccattcccgt cgggagccc	120
ccgattggct ggggtgtgggc gcacgtgacc gacatgtggc tgtattggtg cagcccgcca	180
gggtgtcact ggagacagaa tggaggtgct gccggactcg gaaatgggg aggtgctgga	240
gccaccatgg ccagg	255

<210> 1417  
 <211> 127  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1417	
ggcgggtgcct ccggggctca cctggctgca gccacgcacc ccctctcagt ggcgtcggaa	60
ctgcaaagca cctgtgagct tgcggaagtc agttcagact ccagcccgt ccagcccggc	120
ccgaccc	127

<210> 1418  
 <211> 127  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1418	
ggcgggtgcct ccggggctca cctggctgca gccacgcacc ccctctcagt ggcgtcggaa	60
ctgcaaagca cctgtgagct tgcggaagtc agttcagact ccagcccgt ccagcccggc	120
ccgaccc	127



<210> 1419  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1419  
cgggagcccg cccccgagag gtgggctgcg ggcgctcgag gccagccgc cgccgccgc 60  
gccgccgcg cgccctccgc cgccgccgc gccgccgcg ccgccgcgct gccgcacgc 120  
ccctggcagc ggcgctccg tcaccgccgc cgccgcgct cgccgtcggc ccgccgccg 180  
ctcagaggcg gccctccacc ggaagtgaac ccgaaacgga gctgagcgcc tgactgaggg 240  
cgaacccccg gcccg 255

<210> 1420  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1420  
tcctgccatc cgcgctttg cacttttctt tttgagttga catttcttgg tgctttttgg 60  
tttctcgctg ttgttgggtg ctttttgggt tgttcttgct ctttttctgt ttgctcatcc 120  
tttttggcgc taactcttag gcagccagcc cagcagcccg aagcccgggc agccgcgctc 180  
cgcgcccccg gggcagcgcg gcgggaaccg cagccaagcc ccccgacacg gggcgcacgg 240  
gggccgggca gcccg 255

<210> 1421  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1421  
aggcacaggg gcagctccg cacggctttc tcaggcctat gccggagcct cgaggggtgg 60  
agagcgggaa gacaggcagt gctcggggag ttgcagcagg acgtcaccag gaggcggaag 120  
cgccacaggg agggggggccc cgggacattg cgcagcaagg aggctgcagg ggctcggcct 180  
gcgggcgcg gtcccacgag gcaactgcgg ccagggtctg gtgcggagag ggcccacagt 240  
ggacttggtg acgct 255

<210> 1422  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1422  
cgacccctcc gaccgtgctt ccggtgaggg tcctgggccc ctttcccact ctctagagac 60  
agagaaatag ggcttcgggc gccagcggtt tcctgtggcc tctgggacct cttggccagg 120  
gacaaggacc cgtgacttcc ttgcttgctg tgtggcccgg gagcagctca gacgctggct 180  
ccttctgtcc ctctgccgtt ggacattagc tcaagtcact gatcagtcac aggggtggcc 240  
tgtcaggtca ggcgg 255

<210> 1423  
<211> 213  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1423  
cccgcagggt ggctgcgtcc ttccagggcc tggcctgagg gcaggggtgg ttgctcccc 60  
cttcagcctc cgggggctgg ggtcagtgcg gtgctaacac ggctctctct gtgctgtggg 120  
acttcaggc aggcccgcaa gccgtgtgag ccgtgcgagc cgtggcatcg ttgaggagtg 180  
ctgtttccgc agctgtgacc tggccctcct gga 213

<210> 1424  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1424  
gcgtctgccg gcccctcccc ttgtccgtcc cctccgcgcc gctggcgccg gccttctgaa 60  
tgccaagcat tgccataaac tccggggaca aaagcctggg tcacaaaagc cccctctaga 120  
agttcacacc ctgaggcttc cctggcaagg ctggggggccg tttggccctt ccatgtggac 180  
tgcaaaaaca gtgttggaat gcaggactct gggtatgttc tcgaaagttg ttacaacccc 240  
aaccaggggt tgacc 255

<210> 1425  
<211> 117  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1425

taggcgcgcg ggcagccacc gcgctcctct ggctctcctg ctccatcgcg ctctccgcg 60

cccttgccac ctccaacgcc cgtgcccagc agcgcgcggc tgcccaacag cgccgga 117

<210> 1426

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1426

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cgtgtcaggt gacggatgta gctagggggc gagctgcctg gagttgcgtt ccaggcgctc 120

ggccccctggg ccgtcaccgc ggggcgcccc cgctgagggg gggaagatgg tggtaggggt 180

ggggg'gcac acagggcggg aaagtggcgg taggcgggag ggagaggaac gcgggccctg 240

agccgccccg gcgcg 255

<210> 1427

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1427

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agaagcaatc caggcgcgcc cgctggttct tgagcgccag gaaaagcccc gagctaacga 180

ccggccgctc ggccactgca cggggcccca agccgcagaa ggacgacggg agggtaatga 240

agctgagccc aggtc 255

<210> 1428

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1428

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caccagaggg tggggcggac cgcgtgcgct cggcggctgc ggagaggggg agagcaggca	180
gcgggcggcg gggagcagca tggagccggc ggcggggagc agcatggagc cttcggctga	240
ctggctggcc acggc	255

<210> 1429  
 <211> 255  
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<220>  
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ctttttcttc tcttccatcc catcctccct tctggtcctc ctttccacag tgggagtccg	120
tgctcctgct cctcggttgg ctctaagtg ccccgccagg tcccctctcc ttctgctctc	180
ccggctccgg ctcccgactc ttcgccccgc tggcatctgc ttccctcccc tgccctgttt	240
ctcgtcgccc ctgct	255

<210> 1430  
 <211> 115  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<400> 1430	
ggccagaggc agggccgcag ctccctgccc cgcctctgtg cctccgcaa cccgacaacg	60
cttgctccca ccccgatccc cgcacccgcg cgaagtgggc cctccggteg tcggc	115

<210> 1431  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> probe/primer/pcr

<400> 1431	
tgcccgggtc atcggacggg aggccgcgcc acgtgagggc ggcaagaggg cactggccct	60
gcggcgaggc cccagcgagg ggcgcttccc cgagggggcca gcctgggca	109

<210> 1432  
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 <212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1432

cccagtgcgc acggcgaggc agtagcccg ccccgactg ctgatagggtg caggcaggac 60

agtccctcca ccgcggtctg gggcgctctg attggtgcgg agccacgtca gtcgcacccg 120

gagaagggtc tgggaggagg cggaggcgga gagggctggg gagggccgcg 170

<210> 1433

<211> 138

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1433

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gagcctcgcg gacgtgacgc cgcgggcgga agtgacgttt tcccgcggtt ggacgcggcg 120

ctcagttgcc gggcgggg 138

<210> 1434

<211> 255

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1434

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tgctctcccg gtgtcccgt tctccgcgcc ccagccgccg gctgccagct ttccggggcc 120

ccgagtcgca cccagcgaag agagcgggcc cgggacaagc tcgaactccg gccgcctcgc 180

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cctggctcgc tgctg 255

<210> 1435

<211> 124

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1435

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tgcggtgtc tgcggtggga agggcggtgg tgactgggag catgcggggg aaccgcagtg 120

ggca 124

<210> 1436  
<211> 196  
<212> DNA  
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<220>  
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<400> 1436  
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tgccatattg tccttgcggc aaaacccaac acgaaaagca cacagcaaag acaaagagggc 120  
ccgccatgtt ttacactgcg gcaagacctt cagccgccat cttttcctgt gtgaccgcac 180  
atgtccacca ccatgc 196

<210> 1437  
<211> 128  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1437  
tcttgagcct caggagtga aaggcccctt gggaaaccct caccaggag atacacagga 60  
gcactggctt tggcagcagc tcacaatgag aaagatgcct gtcacagcct ttgccttctc 120  
cttctatg 128

<210> 1438  
<211> 255  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> probe/primer/pcr

<400> 1438  
ggaccatgag tgtttccatg cttggcatca gacatgtctt ctaccctat tcagtctgtc 60  
atccactggc caagaatccc aaacattcta aaactgtgtc cacatctctt ctgggtaact 120  
cttatgattg gagggcttcc tgaggtgtga agtctatcac agatccagtg actaacttct 180  
agcttcatct tattctcact taggggagaa gagttgaggg ccaagcaaac ctcttcttac 240  
cattggctta gggaa 255

<210> 1439  
<211> 255  
<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1439

tcagccactg cttcgcaggc tgacgttact gacgtggtgc cagcgacgga gggcgagAAC	60
gccagcgcgG cgcagccgga cgtgaacgG cagatcaccG cagcggttgc ggcagaaaac	120
agccgcatta tggggatcct caactgtgag gaggctcacG gacgcgaaga acaggcacgc	180
gtgctggcag aaacccccG tatgaccgtg aaaacggccc gccgcattct ggcgcagca	240
ccacagagtG cacag	255

<210> 1440

<211> 155

<212> DNA

<213> Artificial Sequence

<220>

<223> probe/primer/pcr

<400> 1440

cggccagctG cgcggcgact ccggggactc cagggcgccc ctctgcggcc gacgcccggg	60
gtgcagcgG cgcggggct ggggccggG ggagtcGcgG ggaccctcca gaagagcgG	120
cggcgccgtG actcagcact ggggcggagc ggggc	155