

SEQUENCE LISTING

<110> Shanghai Jiao Tong University
PERFECT CHINA CO., LTD

<120> METHODS AND COMPOSITIONS FOR IMPROVING GUT MICROBIOTA POPULATION

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<170> PatentIn version 3.5

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acaacggcta actacgtgcc
140

<210> 62
<211> 141
<212> DNA
<213> Oscillibacter 16S rRNA gene V3 region

<400> 62
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ctttcgggtt gtaaacttct tttctggggg acgaagaaag tgacggtacc ccacggaata
120

agccacggct aactacgtgc c
141

<210> 63
<211> 140
<212> DNA
<213> Ruminococcaceae 16S rRNA gene V3 region

<400> 63
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120

gccacggcta actacgtgcc
140

<210> 64
<211> 140
<212> DNA
<213> Oscillibacter 16S rRNA gene V3 region

<400> 64
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120

gccacggcta actacgtgcc
140

<210> 65
<211> 139
<212> DNA
<213> Ruminococcaceae 16S rRNA gene V3 region

<400> 65
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ctttcgggtt gtaaacttct tttctcgggg acgaacaaat gacggtaccc gaggaataag
120

ccacggctaa ctacgtgcc
139

<210> 66
<211> 139
<212> DNA
<213> Butyricicoccus 16S rRNA gene V3 region

<400> 66
tggggaatat tgcgcaatgg gggcaaccct gacgcagcaa cgccgcgtga ttgaagaagg
60

tcttcggatt gtaaaaatct tttatcaagg acgaagaagt gacggtactt gatgaataag
120

ctccggctaa ctacgtgcc
139

<210> 67
<211> 139
<212> DNA
<213> unknown bacterium 16S rRNA gene V3 region

<400> 67
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60

ttttcggatc gtaaacctct gtccttggtg aagaggagaa gacggtagcc aaggaggaag
120

ccccggctaa ctacgtgcc
139

<210> 68
<211> 139
<212> DNA
<213> unknown bacterium 16S rRNA gene V3 region

<400> 68
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ttttcggatc gtaaacctct gtccttggtg aagagaagaa gacggtagcc aaggaggaag
120

ccccggctaa ctacgtgcc
139

<210> 69
<211> 137
<212> DNA

<213> Dorea 16S rRNA gene V3 region

<400> 69

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60

atttcggtat gtaaacttct atcagcaggg aagataacga cggtacctga ctaagaagcc
120

ccggctaact acgtgcc
137

<210> 70

<211> 140

<212> DNA

<213> Clostridiales 16S rRNA gene V3 region

<400> 70

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60

tcttcggatt gtaaagttct gtccttaggg aagaagaaag tgacggtacc taaggaggaa
120

gccccggcta actacgtgcc
140

<210> 71

<211> 109

<212> DNA

<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 71

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60

atttcggtat gtaaagctct atcagcaggg aagaaaatga cggtacctg
109

<210> 72

<211> 137

<212> DNA

<213> Clostridiales 16S rRNA gene V3 region

<400> 72

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atttcggtat gtaaacttct atcagcaggg aagaaaatga cggtacctga ctaagaagcc
120

ccggctaatt acgtgcc
137

<210> 73
<211> 163
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 73
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60

gtcttcggat cgtaaaactc tgttgcgggg gaaaaaggaa gggaagagga aatgcttttc
120

ttttgatggg accccgccag aaagtcacgg ctaactacgt gcc
163

<210> 74
<211> 163
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 74
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60

gtcttcggat cgtaaaactc tgttgcgggg gaaaaaggaa ggaaagagga aatgcttttc
120

ttttgatggg accccgccag aaagtcacgg ctaactacgt gcc
163

<210> 75
<211> 164
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 75
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tcttcggatc gtaaaaaactc tgttgcgggg gaaaaaagga agggaagagg aaatgctttt
120

cttttgatgg taccccgcca gaaagtcacg gctaactacg tgcc
164

<210> 76
<211> 164
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 76
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tcttcgcatc gtaaaactct gtttgcgggg ggaaaaagga agggaagagg aaatgctttt
120

cttttgatgg taccccgcca gaaagtcacg gctaactacg tgcc
164

<210> 77
<211> 162
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 77
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60

tcttcgcatc gtaaaactct gttgcggggg aaaaaggaag ggaagaggaa atgcttttct
120

tttgatggta ccccgccaga aagtcacggc taactacgtg cc
162

<210> 78
<211> 161
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 78
tagggaattt tcgtcaatgg gcgcaagcct gaacgagcaa tgccgctga gcgaagaagg
60

tcttcgcatc gtaaaactct gttgcgggga aaaggaaggg aagaggaaat gcttttcttt
120

tgtatgtac cccgcccaga agtcacggct aactacgtgc c
161

<210> 79
<211> 162
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 79
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tcttcgcatc gtaaaactct gttgcggggg aaaaggaagg gaagaggaaa tgcttttctt
120

ttgtatggta ccccgccaga aagtcacggc taactacgtg cc
162

<210> 80
<211> 161
<212> DNA

<213> Allobaculum 16S rRNA gene V3 region

<400> 80

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60

tcttcggatc gtaaaactct gttgcggggg aaaaggaagg gaagaggaaa tgcttttctt
120

ttgatgttac cccgccagaa agtcacggct aactacgtgc c
161

<210> 81

<211> 159

<212> DNA

<213> Allobaculum 16S rRNA gene V3 region

<400> 81

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60

ttcggatacg taaactctgt tgcgggggaa aaaggaaggg aagaggaaat gctttctttt
120

gatggtaccc cgccagaaag tcacggctaa ctacgtgcc
159

<210> 82

<211> 163

<212> DNA

<213> Allobaculum 16S rRNA gene V3 region

<400> 82

tagggaattt tcgtcaatgg gcgcaagcct gaacgagcaa tgccgcgtga gcgaagaagg
60

tcttcggatc gtaaaactct gttgcggggg aaaaaggaag ggaagaggaa atgcttttct
120

tttgatggta ccccgcccag aaagtcacgg ctaactacgt gcc
163

<210> 83

<211> 163

<212> DNA

<213> Allobaculum 16S rRNA gene V3 region

<400> 83

tagggaattt tcgtcaatgg gcgcaagcct gaacgagcaa tgccgcgtga gcgaagaagg
60

tcttcggatc gtaaaactct gttgcggggg aaaaaggaag ggaagaggaa aatgcttttc
120

ttttgatggt accccgccag aaagtcacgg ctaactacgt gcc
163

<210> 84
<211> 162
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 84
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60

tcttcggatc gtaaaactct gttgcggggg aaaaaggaag ggaagaggaa atgcttttct
120

tttgatggta ccccgccaga aagtcacggc taactacgtg cc
162

<210> 85
<211> 163
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 85
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gtcttcggat cgtaaagttc tgttgagagg gaaaaagggc caccagagga aatgctgggtg
120

aagtgatatt acctttcgag gaagtcacgg ctaactacgt gcc
163

<210> 86
<211> 162
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 86
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60

tcttcggatc gtaaagttct gttgagaggg aaaaagggtc accagaggaa atgctggtga
120

agtgatatta cctttcgagg aagtcacggc taactacgtg cc
162

<210> 87
<211> 160
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 87

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60

ttcggatcgt aaagttctgt tgagagggaa aaagggtcac cagaggaaat gctggtgaag
120

tgatattacc tttcgaggaa gtcacggcta actacgtgcc
160

<210> 88
<211> 163
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 88
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60

tcttcggatc gtaaagttct gttgagaggg aaaaagggt caccagagga aatgctggtg
120

aagtgatatt acctttcgag gaagtcacgg ctaactacgt gcc
163

<210> 89
<211> 161
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 89
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60

tcttcggatc gtaaagttct gttgagaggg aaaagggtca ccagaggaaa tgctggtgaa
120

gtgatattac ctttcgagga agtcacggct aactacgtgc c
161

<210> 90
<211> 163
<212> DNA
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<400> 90
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60

gtcttcggat acgtaaagtt ctgttgagag gaaaaagggt caccagagga aatgctggtg
120

aagtgatatt acctttcgag gaagtcacgg ctaactacgt gcc
163

<210> 91
<211> 161
<212> DNA
<213> Allobaculum 16S rRNA gene V3 region

<400> 91
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60

tcttcggatc gtaaaactct gttgcggggg aaaaggaagg gaagaggaaa tgcttttctt
120

ttgatgttac cccgccagaa agtcacggct aactacgtgc c
161

<210> 92
<211> 162
<212> DNA
<213> Holdemania 16S rRNA gene V3 region

<400> 92
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60

ccttcggggtt gtaaagctct gttgtgaagg aagaacggct catagagggg atgctatggg
120

agtgacggta ctttaccaga aagccacggc taactacgtg cc
162

<210> 93
<211> 163
<212> DNA
<213> Phascolarctobacterium 16S rRNA gene V3 region

<400> 93
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atttcggtct gtaaagctct gttgtttatg acgaacgtgc agtgtgtgaa caatgcattg
120

caatgacggt agtaaacgag gaagccacgg ctaactacgt gcc
163

<210> 94
<211> 137
<212> DNA
<213> Alphaaproteobacteria 16S rRNA gene V3 region

<400> 94
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ttttcggatt gtaaagctct ttcggatgtg acgatgatga cggtagcatc taaagaagcc
120

ccggcaaact tcgtgcc
137

<210> 95
<211> 117
<212> DNA
<213> Helicobacter 16S rRNA gene V3 region

<220>
<221> misc_feature
<222> 2..2
<223> n is a, c, g, or t

<400> 95
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60

tttgttagag aagataatga cggatatctaa cgaataagca ccggctaact ccgtgcc
117

<210> 96
<211> 137
<212> DNA
<213> Helicobacter 16S rRNA gene V3 region

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ttttcggatt gtaaactcct tttgttagag aagataatga cggatatctaa cgaataagca
120

ccggctaact ccgtgcc
137

<210> 97
<211> 157
<212> DNA
<213> Prevotella 16S rRNA gene V3 region

<400> 97
tgaggaatat tggtaaatgg gcggaagcct gaaccagcca agtagcgtgc aggaagacgg
60

ccctacgggt tgtaaactgc ttttatgcgg ggataaagtg caatacgtgt attgctttgc
120

aggtaccgca tgaataagga ccggctaatt ccgtgcc
157

<210> 98
<211> 157
<212> DNA
<213> Prevotella 16S rRNA gene V3 region

<400> 98
tgaggaatat tggatcaatgg gcggaagcct gaaccagcca agtagcgtgc aggatgacgg
60

ccctacgggt tgtaaaactgc ttttttgcgg gaataaagcg gctcacgtgt gagcctttgc
120

atgtaccgca cgaataagga ccggctaatt ccgtgcc
157

<210> 99
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<212> DNA
<213> Prevotella 16S rRNA gene V3 region

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ccctatgggt tgtaaaactgc ttttatacgg ggataaagtt ggggacgtgt cccattttgt
120

aggtaccgta tgaataagga ccggctaatt ccgtgcc
157

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<212> DNA
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ccctccgggt cgtaaacgc ttttagacgg ggataaaagg gcatacgtgt atgccgtatt
120

gcatgtaccg tcagaaaaag gaccggctaa ttccgtgcc
159

<210> 101
<211> 157
<212> DNA
<213> Bacteroidales 16S rRNA gene V3 region

<400> 101
tgaggaatat tggatcaatgg gcgagagcct gaaccagcca agtagcgtga aggaagactg
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ccctatgggt tgtaaacttc ttttataagg gaataaagag cgccacgtgt ggtgtgttgt
120

atgtacctta tgaataagca tcggctaatt ccgtgcc
157

<210> 102
<211> 157
<212> DNA
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<400> 102
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60

cgccaggcgt cgtaaactc ttttgccggg gaacaaaggg cgccacgtgt ggcgttgtga
120

gtgtaccgg agaaaaagca tcggctaact ccgtgcc
157

<210> 103
<211> 157
<212> DNA
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<400> 103
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cgccaggcgt cgtaaactc ttttgccggg gaacaaaggg cgccacgtgt ggcgttgtga
120

gtgtaccgg agaaaaagca tcggctaact ccgtgcc
157

<210> 104
<211> 156
<212> DNA
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<400> 104
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cgccaggcgt cgtaaactc ttttgccggg gaacaaaggg cgccacgtgt ggcgttgtga
120

gtgtaccgg agaaaagcat cggctaactc cgtgcc
156

<210> 105
<211> 158
<212> DNA

<213> Bacteroidales 16S rRNA gene V3 region

<400> 105

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120

gtgtacccgg agaaaaaagc atcggctaac tccgtgcc
158

<210> 106

<211> 157

<212> DNA

<213> Butyrivibrio 16S rRNA gene V3 region

<400> 106

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cgccaagcgt cgtaaacctc ttttgtcagg gaacaaaagc gggcacgcgt gcccgccga
120

gtgtacctga agaaaaagca tcggctaact ccgtgcc
157

<210> 107

<211> 158

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 107

tgaggaatat tggatcaatgg gcgagagcct gaaccagcca agccgcgtga aggaagaagg
60

tgctaagcat tgtaaaacttc ttttgtcagg gaacaaagag cgcgacgagt cgcgccgtga
120

gtgtacctga agaaaaagac atcggctaac tccgtgcc
158

<210> 108

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 108

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tgctaagcat tgtaaaacttc ttttgtcagg gaacaaagag cgcgacgagt cgcgccgtga
120

gtgtacctga agaaaaagca tcggctaact ccgtgcc
157

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<212> DNA
<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 109
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tgctaagcat tgtaaaacttc ttttgtcagg gaacaaagag cgcgacgagt cgcgccgtga
120

gtgtacctga agaaaagcat cggctaactc cgtgcc
156

<210> 110
<211> 157
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<213> Porphyromonadaceae 16S rRNA gene V3 region

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tgctcggcat cgtaaaacttc ttttgtcagg gaacaaaggg cggtaactgt accgctgtga
120

gtgtacctga agaaaaagca tcggctaact ccgtgcc
157

<210> 111
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<400> 111
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120

gtgtacctga agaaaaaagc atcggctaac tccgtgcc
158

<210> 112
<211> 157
<212> DNA
<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 112

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120

gtgtaccgg agaaaaagca tcggctaact ccgtgcc
157

<210> 113

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 113

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120

gtgtaccgg agaaaagaca tcggctaact ccgtgcc
157

<210> 114

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 114

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120

gggtacctga agaaaaagca tcggctaact ccgtgcc
157

<210> 115

<211> 157

<212> DNA

<213> Barnesiella 16S rRNA gene V3 region

<400> 115

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cactacgtgt tgtaaacctc ttttgccggg gaacaaaagc ggggacgcgt cccgtccgc
120

gtgtaccgg agaaaaagca tcggctaact ccgtgcc
157

<210> 116
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<212> DNA
<213> Barnesiella 16S rRNA gene V3 region

<400> 116
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ccctacgggt tgtaaacctc ttttgtcggg gagcaaagag cgccacgcgt ggcgagatga
120

gagtaccga agaaaaagca tcggctaact ccgtgcc
157

<210> 117
<211> 158
<212> DNA
<213> Barnesiella 16S rRNA gene V3 region

<400> 117
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ccctacgggt tgtaaacctc ttttgtcggg gagcaaagag cgccacgcgt ggcgagatga
120

gagtaccga agaaaaagac atcggctaac tccgtgcc
158

<210> 118
<211> 157
<212> DNA
<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 118
tgaggaatat tgggtcaatgg gcgggagcct gaaccagcca agccgcgtga aggaagacgg
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ccctacgggt tgtaaaacttc ttttgttgca ggacaacacc ccggacgcgt ccgggcatga
120

gtgtatgcaa agaaaaagca tcggctaact ccgtgcc
157

<210> 119
<211> 157
<212> DNA
<213> Bacteroidales 16S rRNA gene V3 region

<400> 119
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60

ccctacgggt cgtaaacctc ttttgtcggg gaacaaaacc ggagacgagt ctccggctgc
120

gtgtacccga agaaaaagca tcggctaact ccgtgcc
157

<210> 120
<211> 158
<212> DNA
<213> Bacteroidales 16S rRNA gene V3 region

<400> 120
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60

cgctcagcgt cgtaaacctc ttttagccggg gaacaaagag ctgctcggga agcagcgttg
120

agcgtacccg gagaataagc atcggctaac tccgtgcc
158

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<213> Porphyromonadaceae 16S rRNA gene V3 region

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tcctacggat tgtaaacctc ttttgccggg gagcaatgcg cggtagcgt accgcgacgg
120

agagtacccg gagaaaaagc atcggctaac tccgtgcc
158

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120

gagtacccga agaaaagaca tcggctaact ccgtgcc
157

<210> 123
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<212> DNA

<213> Barnesiella 16S rRNA gene V3 region

<400> 123

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ccctacgggt tgtaaacctc tttgtcggg gagcaaggac tgccacgagt ggcagggcga
120

gagtaccga agaaaaagca tcggctaact ccgtgcc
157

<210> 124

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 124

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120

gagtaccgg agaaaaagca tcggctaact ccgtgcc
157

<210> 125

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 125

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120

gagtaccga agaaaaagca tcggctaact ccgtgcc
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<210> 126

<211> 157

<212> DNA

<213> Bacteroidales 16S rRNA gene V3 region

<400> 126

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120

gggtacccgg agaaaaagca tcggctaact ccgtgcc
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ccctacgggt tgtaaacctc ttttgtcggg gagcaaattc cgttacgtgt aacggagtcg
120

agagtacccg aagaaaaagc atcggctaac tccgtgcc
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agagtaccct gagaaaaagc atcggctaac tccgtgcc
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agagtacccg aagaaaaagc atcggctaac tccgtgcc
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<400> 130

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agagtacccg aagaaaaagc atcgggctaac tccgtgcc
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<210> 131
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<400> 131
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120

gagtacccgg aaaaaagca tcgggctaact ccgtgcc
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<210> 132
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<400> 132
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120

agagtacctg aagaaaaagc atcgggctaac tccgtgcc
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<210> 133
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agagtacccg aagaaaaagc atcgggctaac tccgtgcc
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gagtaccgga agaaaaagca tcggctaact ccgtgcc
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<213> Porphyromonadaceae 16S rRNA gene V3 region

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gagtaccggg agaaaaagca tcggctaact ccgtgcc
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agagtaccg gagaaaaagc atcggctaac tccgtgcc
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gagtaccgg agaaaaagca tcggctaact ccgtgcc
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<210> 138
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agagtaccgg aagaaaaagc atcggctaac tccgtgcc
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ccctatgggt tgtaaacctc ttttgctcggg gagcaaagcc gccacgagt gggcggaagg
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agagtaccgg aagaaaaagc atcggctaac tccgtgcc
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120

agagtaccgg aagaaaaaga catcggctaa ctccgtgcc
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<213> Porphyromonadaceae 16S rRNA gene V3 region

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120

agagtacccg aagaaaagac atcggctaac tccgtgcc
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<210> 142

<211> 158

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<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 142

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120

agagtacccg gagaaaaagc atcggctaac tccgtgcc
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<210> 143

<211> 158

<212> DNA

<213> porphyromonadaceae 16S rRNA gene V3 region

<400> 143

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tcctaaggat tgtaaacctc ttttgtcagg gagcaaggag cgccacgtgt ggcgcggcga
120

gagtacctga agaaaaagac atcggctaac tccgtgcc
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<210> 144

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 144

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120

gagtacctga agaaaaagca tcggctaact ccgtgcc
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<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 145
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120

gagtaccggg agaaaaagca tcggctaact ccgtgcc
157

<210> 146
<211> 157
<212> DNA
<213> Butyrivibrio 16S rRNA gene V3 region

<400> 146
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tcctatggat tgtaaacctc ttttgccggg gagcaaagag cggcacgtgt gccgcgccga
120

gagtaccggg agaaaaagca tcggctaact ccgtgcc
157

<210> 147
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<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 147
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tcctatggat tgtaaacctc ttttgtcggg gagcaacgaa ggcacgtgtg ccagaagcga
120

gattaccgga agaaaaagca tcggctaact ccgtgcc
157

<210> 148
<211> 158
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<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 148

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tcctatggat tgtaaacctc ttttgtcggg gagcaacgaa ggcacgtgtg ccagaagcga
120

gattaccgga agaaaaagac atcgggctaac tccgtgcc
158

<210> 149

<211> 157

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 149

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tcctatggat tgtaaacctc ttttgtcggg gagcaacgaa ggcacgtgtg cctgaagcga
120

gattaccgga agaaaaagca tcgggctaact ccgtgcc
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<210> 150

<211> 158

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 150

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120

agagtaccgga aagaaaaagc atcgggctaac tccgtgcc
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<210> 151

<211> 159

<212> DNA

<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 151

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tcctatggat tgtaaacctc ttttgtcggg gagcaaagag gccacgtgtg gtcaaaagcg
120

agagtaccgga aagaaaaaga catcgggctaa ctccgtgcc
159

<210> 152
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<212> DNA
<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 152
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tcctatggat tgtaaacctc ttttgtcggg gagcaaggat ccgcacgagt gcggaggcga
120

gagtacccga agaaaaagca tcggctaact ccgtgcc
157

<210> 153
<211> 158
<212> DNA
<213> Porphyromonadaceae 16S rRNA gene V3 region

<400> 153
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tcctatggat tgtaaacctc ttttgtcggg gagcaaggat ccgcacgagt gcggaggcga
120

gagtacccga agaaaaagac atcggctaac tccgtgcc
158

<210> 154
<211> 157
<212> DNA
<213> Butyricimonas 16S rRNA gene V3 region

<400> 154
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gtctatggcc tgtaaacctc ttttgtcagg gaagaataag gatgacgagt cattcgatgc
120

cagtacttga cgaataagca tcggctaact ccgtgcc
157

<210> 155
<211> 157
<212> DNA
<213> Alistipes 16S rRNA gene V3 region

<400> 155
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ctctatgagt tgtaaaactgc ttttgtacga gggtaaaccg ggatacgtgt atccggctga
120

aagtatcgta cgaataagga tcggctaact ccgtgcc
157

<210> 156
<211> 162
<212> DNA
<213> unknown bacterium 16S rRNA gene V3 region

<400> 156
ctaaggatat tccgcaacgg gcggaagccc ggcggagcga cgccgcgtgg acgaggaagg
60

ccggaagggtt gcagagtcct tttgcggggg aagaaggagc cgccggaggga atgccgcggc
120

ggcgaccgaa ccccggaat aaggggcggc taattacgtg cc
162

<210> 157
<211> 155
<212> DNA
<213> Bifidobacterium 16S rRNA gene V3 region

<400> 157
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60

ccttcgggtt gtaaaccgct tttgttcaag ggcaaggcac ggcttcgggc cgtgttgagt
120

ggattgttcg aataagcacc ggctaactac gtgcc
155

<210> 158
<211> 137
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 158
tggggaatat tgcacaatgg ggggaaccct gatgcagcga cgccgcgtgg gtgaagaagt
60

atttcggtat gtaaagccct atcagcaggg aagaaaaaga cggtacctga ctaagaagcc
120

ccggctaact acgtgcc
137

<210> 159
<211> 137
<212> DNA

<213> Hespellia 16S rRNA gene V3 region

<400> 159

tggggaatat tgcacaatgg gggaaaccct gatgcagcga cgccgcgtga aggaagaagt
60

atttcggtat gtaaacttct atcagcaggg aagaaaatga cggatatctga ctaagaagcc
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ccggctaact acgtgcc
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<210> 160

<211> 137

<212> DNA

<213> Marvinbryantia 16S rRNA gene V3 region

<400> 160

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atttcggtat gtaaagccct atcagcaggg aagaaaatga cagtacctga ataagaagcc
120

ccggctaact acgtgcc
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<210> 161

<211> 138

<212> DNA

<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 161

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60

atttcggtat gtaaagccct atcagcaggg aagaaagaag acggtacctg agtaagaagc
120

cccggctaac tacgtgcc
138

<210> 162

<211> 139

<212> DNA

<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 162

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tatttcggta tgtaaagctc tatcagcagg gaagaaaata gacggtacct gactaagaag
120

ccccggctaa ctacgtgcc
139

<210> 163
<211> 140
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 163
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60

atttcggtat gtaaagctct atcagcaggg aagaaagaaa tgacggtacc tgaccaagaa
120

gccccggcta actacgtgcc
140

<210> 164
<211> 142
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 164
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60

aattcggtac gtaaagctct atcagcaggg aagaaaaaga aatgacggta cctgattaag
120

aagccccggc taactacgtg cc
142

<210> 165
<211> 138
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 165
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atttcggtat gtaaagctct atcagcaggg aagaaaaaag acggtacctg actaagaagc
120

cccggtaac tacgtgcc
138

<210> 166
<211> 138
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 166

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atttcggtat gtaaagctct atcagcaggg aagaaaaaag acggtacctg actaagaagc
120

cccggctaac tacgtgcc
138

<210> 167
<211> 139
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 167
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120

caccggctaa atacgtgcc
139

<210> 168
<211> 139
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<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 168
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aattcggttac gtaaagctct atcagcaggg agaaaaaat gacggtacct gactaagaag
120

caccggctaa atacgtgcc
139

<210> 169
<211> 137
<212> DNA
<213> Oribacterium 16S rRNA gene V3 region

<400> 169
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atttcggtat gtaaagctct atcagcaggg aagaagatga cagtacctga ctaagaagcc
120

ccggctaact acgtgcc
137

<210> 170
<211> 137
<212> DNA
<213> Coprococcus 16S rRNA gene V3 region

<400> 170
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60

atttcggtat gtaaagctct atcagcaggg aagaaaatga cggtacctga ctaagaagct
120

ccggctaaat acgtgcc
137

<210> 171
<211> 137
<212> DNA
<213> Ruminococcus 16S rRNA gene V3 region

<400> 171
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60

ttttcggatt gtaaactcct gtcttaaagg acgataatga cggtacttta ggaggaagct
120

ccggctaact acgtgcc
137

<210> 172
<211> 138
<212> DNA
<213> Roseburia 16S rRNA gene V3 region

<400> 172
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atttcggtat gtaaagctct atcagcaggg aagaagaatg acggtacctg actaagaagc
120

accggctaaa tacgtgcc
138

<210> 173
<211> 137
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<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 173
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60

aattcggtat gtaaagctct gtcagcaggg aagaaagtga cggtacctga aaaagaagct
120

ccggctaaat acgtgcc
137

<210> 174
<211> 137
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<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 174
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60

atttcggtat gtaaagctct atcagcaggg aagaaaatga cggtacctga gtaagaagcc
120

ccggctaact acgtgcc
137

<210> 175
<211> 138
<212> DNA
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aattcggtat gtaaagctct atcagcaagg aagaaaaaag acggtacttg actaagaagc
120

cccggctaaa tacgtgcc
138

<210> 176
<211> 137
<212> DNA
<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 176
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atttcggtat gtaaagccct atcagcaggg aagaagatga cagtacctga ctaagaagcc
120

ccggctaact acgtgcc
137

<210> 177
<211> 137
<212> DNA

<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 177

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actccggtat gtaaagccct atcggcaggg aagaagatga cggtacctga ctaagaagct
120

ccggctaaat acgtgcc
137

<210> 178

<211> 137

<212> DNA

<213> Butyrivibrio 16S rRNA gene V3 region

<400> 178

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atttcggtat gtaaagctct atcagcaggg aagaaagtga cagtacctga gtaagaagcc
120

ccggctaact acgtgcc
137

<210> 179

<211> 140

<212> DNA

<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 179

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gccccggcta actacgtgcc
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<210> 180

<211> 140

<212> DNA

<213> Lachnospiraceae 16S rRNA gene V3 region

<400> 180

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cccggtaac tacgtgcc
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<400> 184

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ccggctaact acgtgcc
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gcctcggcta actacgtgcc
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<211> 137

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<213> marvinbryantia 16S rRNA gene V3 region

<400> 198

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<210> 201
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<213> Coprococcus 16S rRNA gene V3 region

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<400> 202

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acggctaact acgtgcc
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gccacggcta actacgtgcc
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ccggctaact acgtgcc
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ccggctaact acgtgcc
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120

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138

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<400> 213

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acggctaact acgtgcc
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<210> 215

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acggctaact acgtgcc
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acggctaact acgtgcc
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<213> Fastidiosipila 16S rRNA gene V3 region

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120

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<210> 218
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ttttcggatt gtaaacttct tttattaagg acgaaagatg acggtactta atgaataagc
120

tccggctaac tacgtgcc
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<400> 219
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ctttcggggtt gtaaacttct tttgtcaggg aagagaagaa gacggtacct gacgaacaag
120

ccacggctaa ctacgtgcc
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<210> 220
<211> 139
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<400> 220

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120

ccacggctaa ctacgtgcc
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<210> 221
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120

tccggctaac tacgtgcc
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120

ctccggctaa ctacgtgcc
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120

gcaacggcta actacgtgcc
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<210> 224
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<400> 224
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120

gcaacggcta actacgtgcc
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<210> 225
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120

gccacggcta actacgtgcc
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<210> 226
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<212> DNA
<213> Fastidiosipila 16S rRNA gene V3 region

<400> 226
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gccacggcta actacgtgcc
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<210> 228
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gccacggcta actacgtgcc
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<210> 230
<211> 137
<212> DNA
<213> Marvinbryantia 16S rRNA gene V3 region

<400> 230
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atttcggtat gtaaagccct atcagcaggg aagatcatga cggtacctga ctaagaagcc
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<210> 231
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<213> Oscillibacter 16S rRNA gene V3 region

<400> 231

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120

gccacggcta actacgtgcc
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<210> 232

<211> 139

<212> DNA

<213> Ruminococcaceae 16S rRNA gene V3 region

<400> 232

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<210> 233

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<213> Ruminococcaceae 16S rRNA gene V3 region

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120

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<210> 234

<211> 138

<212> DNA

<213> Clostridiales 16S rRNA gene V3 region

<400> 234

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120

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<210> 235
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<210> 236
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120

tccggctaac tacgtgcc
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<210> 237
<211> 140
<212> DNA
<213> Firmicutes 16S rRNA gene V3 region

<400> 237
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tcttcggatt gtaaacttct tttatcaggg acgaaggaag tgacggtacc tgatgaataa
120

gccacggcta actacgtgcc
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<210> 238
<211> 137
<212> DNA
<213> unknown bacterium 16S rRNA gene V3 region

<400> 238

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120

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<210> 240
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<212> DNA
<213> unknown bacterium 16S rRNA gene V3 region

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120

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<210> 241
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<212> DNA
<213> Clostridia 16S rRNA gene V3 region

<400> 241
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120

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<210> 242
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<212> DNA
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<400> 242
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120

tccggctaac tacgtgcc
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<210> 243
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<212> DNA
<213> unknown bacterium 16S rRNA gene V3 region

<400> 243
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<210> 245
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<213> unknown bacterium 16S rRNA gene V3 region

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<210> 246
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<213> unknown bacterium 16S rRNA gene V3 region

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<210> 247
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<213> unknown bacterium 16S rRNA gene V3 region

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<212> DNA

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<210> 264
<211> 163
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<213> Firmicutes 16S rRNA gene V3 region

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<213> Anaeroplasmata 16S rRNA gene V3 region

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<211> 137
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<213> TM7_genera_incertae_sedis 16S rRNA gene V3 region

<400> 267

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<211> 140

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<213> unknown bacterium 16S rRNA gene V3 region

<400> 268

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120

gccacggcta actacgtgcc
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