

SEQUENCE LISTING

<110> THE JOHNS HOPKINS UNIVERSITY, BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEMS and THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK

<120> METHODS AND MATERIALS FOR ASSESSING AND TREATING CANCER

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<151> 2018-02-13

<150> 62/628,759

<151> 2018-02-09

<150> 62/618,232

<151> 2018-01-17

<150> 62/594,245

<151> 2017-12-04

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<210> 120

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<223> Description of Artificial Sequence: Synthetic
primer

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<210> 121

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<223> Description of Artificial Sequence: Synthetic
primer

<400> 121

tgtttcagga cctgcttcg 19

<210> 122

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<223> Description of Artificial Sequence: Synthetic
primer

<400> 122

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<210> 123

<211> 26

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<223> Description of Artificial Sequence: Synthetic
primer

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<210> 124
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<223> Description of Artificial Sequence: Synthetic
primer

<400> 124
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<210> 125
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primer

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primer

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<210> 127
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primer

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<210> 128
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primer

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primer

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primer

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<210> 131
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primer

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primer

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<210> 133
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primer

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<210> 134
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primer

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<210> 135
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<210> 136
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<210> 137
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<400> 137
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<210> 138
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<210> 139
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 <210> 142
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 <210> 143
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 <210> 145
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<400> 147

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<210> 148

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20

<210> 149

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<223> Description of Artificial Sequence: Synthetic primer

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20

<210> 150

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<210> 151

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 <400> 151
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<210> 152
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<210> 153
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 <400> 153
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 <400> 154
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<210> 155

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 <400> 156
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 <210> 157
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 <400> 157
 ggccagttgg caaaacatct 20

 <210> 158
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 <400> 158
 gccctgactt tcaactctgt ct 22

<210> 159
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 159
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 <223> a, c, t, or g

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 <210> 161
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 161
 cacacaggaa acagctatga ccatggatgt ggctcgccaa ttaac 45

 <210> 162
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<223> Description of Artificial Sequence: Synthetic primer

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<222> (22)..(35)

<223> a, c, t, or g

<400> 162

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55

<210> 163

<211> 43

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

<400> 163

cacacaggaa acagctatga ccatgagcca caggctccca gac

43

<210> 164

<211> 58

<212> DNA

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<223> a, c, t, or g

<400> 164

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58

<210> 165

<211> 51

<212> DNA

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<223> Description of Artificial Sequence: Synthetic primer

<400> 165
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<210> 166
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<223> a, c, t, or g

<400> 166
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnncatca tcaatattgt tcctgtatac 60
gc 62

<210> 167
<211> 47
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 167
cacacaggaa acagctatga ccatgggatt tcctgcagaa agacttg 47

<210> 168
<211> 62
<212> DNA
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 168
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 ga 62

<210> 169
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 <212> DNA
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<220>
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<400> 169
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<210> 170
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 <223> a, c, t, or g

<400> 170
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<210> 171
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 <212> DNA
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<220>
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<400> 171
cacacaggaa acagctatga ccatgaagat tcaggcaatg tttgttagta tt 52

<210> 172
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primer

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<210> 173
<211> 54
<212> DNA
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<220>
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primer

<400> 173
cacacaggaa acagctatga ccatgcagta agatacagtc tatcgggttt aagt 54

<210> 174
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primer

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<223> a, c, t, or g

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tga 63

<210> 175
<211> 54
<212> DNA
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<220>
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primer

<400> 175
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<210> 176
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primer

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<223> a, c, t, or g

<400> 176
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<210> 177
<211> 46
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 177
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<210> 178
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primer

<220>
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<223> a, c, t, or g

<400> 178
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<210> 179
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 179
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<210> 180
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primer

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<223> a, c, t, or g

<400> 180
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<210> 181
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 <400> 181
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<210> 182
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 <223> a, c, t, or g

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<210> 183
 <211> 49
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 183
 cacacaggaa acagctatga ccatgtcaat ttggcttctc ttttttttc 49

<210> 184
 <211> 62
 <212> DNA
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<220>
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 <223> a, c, t, or g

<400> 184
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 tt 62

<210> 185
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 185
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<210> 186
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 <212> DNA
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<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 186
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<210> 187
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 187

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<212> DNA

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<220>

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<220>

<221> modified_base

<222> (22)..(35)

<223> a, c, t, or g

<400> 188

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58

<210> 189

<211> 50

<212> DNA

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<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 189

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<210> 190

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<212> DNA

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 <210> 191
 <211> 45
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 <220>
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 primer

 <400> 191
 cacacaggaa acagctatga ccatgtgtgg tctgccagct aaagg 45

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 <223> a, c, t, or g

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 tt 62

 <210> 193
 <211> 45
 <212> DNA
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 <220>
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primer

<400> 193
cacacaggaa acagctatga ccatgttgag ttccctcagc cgta 45

<210> 194
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primer

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<223> a, c, t, or g

<400> 194
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<210> 195
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<220>
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primer

<400> 195
cacacaggaa acagctatga ccatgttttt ttttaggac aaaatgtttc ac 52

<210> 196
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primer

<220>
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<223> a, c, t, or g

<400> 196

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<210> 197

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 197

cacacaggaa acagctatga ccatgtctat gtgatcaaga aatcgatagc a 51

<210> 198

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<212> DNA

<213> Artificial Sequence

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primer

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<222> (22)..(35)

<223> a, c, t, or g

<400> 198

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<210> 199

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 199

cacacaggaa acagctatga ccatgtttta caaaaaatga tcttgacaaa gc 52

<210> 200
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 <210> 201
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 primer

 <400> 201
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 <210> 202
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 <223> a, c, t, or g

 <400> 202
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<210> 203
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 <400> 203
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 <223> a, c, t, or g

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<210> 205
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 <400> 205
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<210> 206
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<223> Description of Artificial Sequence: Synthetic primer

<220>

<221> modified_base

<222> (22)..(35)

<223> a, c, t, or g

<400> 206

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57

<210> 207

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 207

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46

<210> 208

<211> 56

<212> DNA

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<222> (22)..(35)

<223> a, c, t, or g

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56

<210> 209

<211> 45

<212> DNA

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<400> 209

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45

<210> 210

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57

<210> 211

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<400> 211

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<210> 212

<211> 55

<212> DNA

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 <211> 49
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 213
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<210> 214
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<220>
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 <223> a, c, t, or g

<400> 214
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 ctt 63

<210> 215
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 215

cacacaggaa acagctatga ccatgttctc ctttctcagg attcctac 48

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primer

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<222> (22)..(35)
<223> a, c, t, or g

<400> 216
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<210> 217
<211> 52
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 217
cacacaggaa acagctatga ccatgtttac ctctattgtt ggatcatatt cg 52

<210> 218
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primer

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<222> (22)..(35)
<223> a, c, t, or g

<400> 218

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 tgg 63

<210> 219
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 <212> DNA
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<220>
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 primer

<400> 219
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<400> 220
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<210> 221
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 primer

<400> 221
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<210> 222

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primer

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<400> 222
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<210> 223
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<220>
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primer

<400> 223
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<210> 224
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primer

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<223> a, c, t, or g

<400> 224
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<210> 225

<211> 45
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 226
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 <210> 227
 <211> 46
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 227
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 <210> 228
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 <212> DNA
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 <220>
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primer

<220>

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<222> (22)..(35)

<223> a, c, t, or g

<400> 228

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56

<210> 229

<211> 45

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 229

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<210> 230

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<212> DNA

<213> Artificial Sequence

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primer

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<222> (22)..(35)

<223> a, c, t, or g

<400> 230

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55

<210> 231

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

primer

<400> 231
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<210> 232
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<220>
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primer

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<222> (22)..(35)
<223> a, c, t, or g

<400> 232
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<210> 233
<211> 47
<212> DNA
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<220>
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primer

<400> 233
cacacaggaa acagctatga ccatgaagaa gaaaacggca ttttgag 47

<210> 234
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<220>
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primer

<220>
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<222> (22)..(35)

<223> a, c, t, or g

<400> 234

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55

<210> 235

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 235

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48

<210> 236

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<220>

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<222> (22)..(35)

<223> a, c, t, or g

<400> 236

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<210> 237

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 237

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44

<210> 238
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 238
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 <210> 239
 <211> 46
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 239
 cacacaggaa acagctatga ccatgtgcct cttgcttctc ttttcc 46

 <210> 240
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 <212> DNA
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 <220>
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 <223> a, c, t, or g

 <400> 240
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<210> 241
 <211> 47
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 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 241
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 <210> 242
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 primer

 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 242
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 <210> 243
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 243
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 <210> 244
 <211> 56
 <212> DNA
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 <220>

<223> Description of Artificial Sequence: Synthetic primer

<220>

<221> modified_base

<222> (22)..(35)

<223> a, c, t, or g

<400> 244

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56

<210> 245

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 245

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45

<210> 246

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<220>

<221> modified_base

<222> (22)..(35)

<223> a, c, t, or g

<400> 246

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55

<210> 247

<211> 43

<212> DNA

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<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 247
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<210> 248
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<213> Artificial Sequence

<220>
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<220>
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<223> a, c, t, or g

<400> 248
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<210> 249
<211> 44
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 249
cacacaggaa acagctatga ccatggccat ggccatctac aagc 44

<210> 250
<211> 54
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<220>
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<220>
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<222> (22)..(35)
 <223> a, c, t, or g

<400> 250
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<210> 251
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<220>
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<400> 251
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<210> 252
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<220>
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<220>
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 <223> a, c, t, or g

<400> 252
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<210> 253
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 <212> DNA
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<220>
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<400> 253
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<210> 254
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<220>
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primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 254
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<210> 255
<211> 46
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 255
cacacaggaa acagctatga ccatggcatt gaagtctcat ggaagc 46

<210> 256
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primer

<220>
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<223> a, c, t, or g

<400> 256
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<210> 257
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 <220>
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 primer

 <400> 257
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<210> 258
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 primer

<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 258
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<210> 259
 <211> 44
 <212> DNA
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 <220>
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 primer

 <400> 259
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<210> 260
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<220>
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 <223> a, c, t, or g

<400> 260
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<210> 261
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 261
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<210> 262
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<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 262
 cgacgtaaaa cgacggccag tnnnnnnnnn nnnncggtg taggagctgc tgg 53

<210> 263
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 <212> DNA
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<220>
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 <400> 263
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 <210> 264
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 <212> DNA
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 <220>
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 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 264
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 <210> 265
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 <220>
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 <400> 265
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 <210> 266
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 <223> a, c, t, or g

 <400> 266
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<210> 267
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 primer

 <400> 267
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<210> 268
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 primer

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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 268
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<210> 269
 <211> 45
 <212> DNA
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 <220>
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 primer

 <400> 269
 cacacaggaa acagctatga ccatgcgaca cccacagagg aaaag 45

<210> 270
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primer

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<400> 270
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnnggacc aaggatatgc cacac 55

<210> 271
<211> 45
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<220>
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primer

<400> 271
cacacaggaa acagctatga ccatgaatgc cagtgatgac gacaa 45

<210> 272
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primer

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<400> 272
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<210> 273
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 <400> 273
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<210> 274
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 <223> a, c, t, or g

 <400> 274
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<210> 275
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 275
 cacacaggaa acagctatga ccatgttccc ttctgagagt gtcagtgt 48

<210> 276
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<220>
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<220>
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 <223> a, c, t, or g

<400> 276
 cgacgtaaaa cgacggccag tnnnnnnnnn nnnnttggtg atgccactc tgc 53

<210> 277
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<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 277
 cacacaggaa acagctatga ccatgacatt caaccacac aagagg 46

<210> 278
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 <223> a, c, t, or g

<400> 278
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<210> 279
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 <400> 279
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<400> 280
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<210> 281
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<400> 281
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<400> 282
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<210> 283
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<400> 283
 cacacaggaa acagctatga ccatgttatt ccagacgcat ttccac 46

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 <223> a, c, t, or g

<400> 284
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<210> 285
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<400> 285

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<210> 286
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primer

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<223> a, c, t, or g

<400> 286
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<210> 287
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<220>
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primer

<400> 287
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primer

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<210> 289

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primer

<400> 289

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<210> 290

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primer

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<223> a, c, t, or g

<400> 290

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<210> 291

<211> 48

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primer

<400> 291

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<223> a, c, t, or g

<400> 292

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55

<210> 293

<211> 48

<212> DNA

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<400> 293

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48

<210> 294

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<223> a, c, t, or g

<400> 294

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55

<210> 295

<211> 46

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<213> Artificial Sequence

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46

<210> 296

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<223> a, c, t, or g

<400> 296

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<210> 297

<211> 50

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<400> 297

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<400> 299
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 <223> a, c, t, or g

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<210> 301
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<220>
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<400> 301
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primer

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<223> a, c, t, or g

<400> 302
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<210> 303
<211> 49
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<220>
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primer

<400> 303
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primer

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<223> a, c, t, or g

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<210> 305
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<220>
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primer

<400> 305
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primer

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<210> 307
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<220>
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primer

<400> 307
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<210> 308
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primer

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<222> (22)..(35)
<223> a, c, t, or g

<400> 308
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<210> 309
<211> 52
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<220>
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primer

<400> 309
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<210> 310
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<222> (22)..(35)
<223> a, c, t, or g

<400> 310
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<210> 311
<211> 48

<212> DNA
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 <220>
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 <400> 311
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 <210> 312
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 <220>
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 <223> a, c, t, or g

 <400> 312
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 <210> 313
 <211> 46
 <212> DNA
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 <220>
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 <400> 313
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 <210> 314
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 314
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<210> 315
 <211> 45
 <212> DNA
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<220>
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<400> 315
 cacacaggaa acagctatga ccatgtttct ttgcctgca ggatt 45

<210> 316
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<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 316
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<210> 317
 <211> 51
 <212> DNA
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<220>
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<400> 317
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<210> 318
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<220>
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primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 318
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<210> 319
<211> 47
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<220>
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primer

<400> 319
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<220>
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primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 320
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<210> 321
<211> 45
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<220>
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primer

<400> 321
cacacaggaa acagctatga ccatggatga agatttgccc catca 45

<210> 322
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primer

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<210> 323
<211> 45
<212> DNA
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<220>
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primer

<400> 323
cacacaggaa acagctatga ccatgcccga ggcattcat cgtag 45

<210> 324

<211> 58
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 <220>
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 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 324
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 <210> 325
 <211> 49
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 325
 cacacaggaa acagctatga ccatgtgatt atgtttttga caccaatcg 49

 <210> 326
 <211> 57
 <212> DNA
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 <220>
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 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 326
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 <210> 327

<211> 47
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 <220>
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 <400> 327
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 <210> 328
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 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 328
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 <210> 329
 <211> 47
 <212> DNA
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 <220>
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 <400> 329
 cacacaggaa acagctatga ccatgtgtta cccagctcct cttcatc 47

 <210> 330
 <211> 58
 <212> DNA
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 <220>
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primer

<220>

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<222> (22)..(35)

<223> a, c, t, or g

<400> 330

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<210> 331

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

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primer

<400> 331

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<210> 332

<211> 55

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<220>

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<220>

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<222> (22)..(35)

<223> a, c, t, or g

<400> 332

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<210> 333

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

primer

<400> 333
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<210> 334
<211> 60
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<220>
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primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 334
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<210> 335
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 335
cacacaggaa acagctatga ccatggccaa agtcatggaa gaagtg 46

<210> 336
<211> 55
<212> DNA
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<220>
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primer

<220>
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<222> (22)..(35)

<223> a, c, t, or g

<400> 336

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<210> 337

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 337

cacacaggaa acagctatga ccatggtatt ctaatttggc ataaggcata ga 52

<210> 338

<211> 58

<212> DNA

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primer

<220>

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<222> (22)..(35)

<223> a, c, t, or g

<400> 338

cgacgtaaaa cgacggccag tnnnnnnnnnn nnnntgtgt gacagatgag agaaatgc 58

<210> 339

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 339

cacacaggaa acagctatga ccatgaagtc ggaaaattca aataggaca 49

<210> 340
 <211> 59
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 <220>
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 primer

 <220>
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 <223> a, c, t, or g

 <400> 340
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 <210> 341
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 341
 cacacaggaa acagctatga ccatggttct atgccttatg ccaaattaga 50

 <210> 342
 <211> 55
 <212> DNA
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 primer

 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 342
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<210> 343
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 <220>
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 primer

 <400> 343
 cacacaggaa acagctatga ccatgtgatg gttatggtaa aagaggtca 49

 <210> 344
 <211> 61
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 primer

 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 344
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 t 61

 <210> 345
 <211> 52
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 345
 cacacaggaa acagctatga ccatgaagat gatgaaagta agttttgcag tt 52

 <210> 346
 <211> 63
 <212> DNA
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<220>
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<220>
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 <223> a, c, t, or g

<400> 346
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 tca 63

<210> 347
 <211> 45
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 347
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<210> 348
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<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 348
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<210> 349
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<212> DNA
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 <220>
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 <400> 349
 cacacaggaa acagctatga ccatgggatg ataatgatgg agaactagat aca 53

 <210> 350
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 <220>
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 <223> a, c, t, or g

 <400> 350
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 <210> 351
 <211> 48
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 351
 cacacaggaa acagctatga ccatgagatg agcagttgaa ctctggaa 48

 <210> 352
 <211> 58
 <212> DNA
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<220>
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 <223> a, c, t, or g

 <400> 352
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<210> 353
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 <212> DNA
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<220>
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 primer

<400> 353
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<210> 354
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<220>
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 primer

<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 354
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a 61

<210> 355
 <211> 47
 <212> DNA
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<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 355
cacacaggaa acagctatga ccatgtcgat ttgtttctga accattg 47

<210> 356
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<220>
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<220>
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<223> a, c, t, or g

<400> 356
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a 61

<210> 357
<211> 46
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 357
cacacaggaa acagctatga ccatgatttt ggacagcagg aatgtg 46

<210> 358
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 358
 cgacgtaaaa cgacggccag tnnnnnnnnnn nnnnnttctt gacacaaaga ctggcttac 59

<210> 359
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 359
 cacacaggaa acagctatga ccatgccaat ggttcagaaa caaatcg 47

<210> 360
 <211> 63
 <212> DNA
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<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 360
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tgg 63

<210> 361
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<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 361
cacacaggaa acagctatga ccatgtttgt tggctctctt tcttcttcat 50

<210> 362
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
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primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 362
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnntcaaa atgtaagcca gtctttgtg 59

<210> 363
<211> 47
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 363
cacacaggaa acagctatga ccatgtcaat aggctgatcc acatgac 47

<210> 364
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<212> DNA
<213> Artificial Sequence

<220>
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primer

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<223> a, c, t, or g

<400> 364
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cg 62

<210> 365
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 365
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<210> 366
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primer

<220>
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<223> a, c, t, or g

<400> 366
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<210> 367
<211> 46
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 367
cacacaggaa acagctatga ccatgcggtt ttactgcttt gtccag 46

<210> 368
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primer

<220>
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<223> a, c, t, or g

<400> 368
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnncgtca tgtggatcag cctatt 56

<210> 369
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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primer

<400> 369
cacacaggaa acagctatga ccatgttcct tcatcacaga aacagtca 48

<210> 370
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<212> DNA
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<220>
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primer

<220>
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<222> (22)..(35)
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<400> 370
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<210> 371
 <211> 47
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 371
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<210> 372
 <211> 55
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 <213> Artificial Sequence

 <220>
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 <220>
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 <223> a, c, t, or g

 <400> 372
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<210> 373
 <211> 54
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 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 373
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<210> 374
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<220>
 <223> Description of Artificial Sequence: Synthetic primer

<220>
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 <223> a, c, t, or g

<400> 374
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<210> 375
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 375
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<210> 376
 <211> 61
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic primer

<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 376
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c 61

<210> 377
 <211> 54
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 377

cacacaggaa acagctatga ccatggatgt agttcattat catctttgtc atca

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<212> DNA

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<220>

<223> Description of Artificial Sequence: Synthetic primer

<220>

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<222> (22)..(35)

<223> a, c, t, or g

<400> 378

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<210> 379

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 379

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45

<210> 380

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<220>
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 <223> a, c, t, or g

 <400> 380
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<210> 381
 <211> 46
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 381
 cacacaggaa acagctatga ccatgggtca gctgaagatc ctgtga 46

<210> 382
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<220>
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 primer

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 <223> a, c, t, or g

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<210> 383
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<220>
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 primer

<400> 383
cacacaggaa acagctatga ccatgagaat cagccaggca caaag 45

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<220>
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primer

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<210> 385
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<213> Artificial Sequence

<220>
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primer

<400> 385
cacacaggaa acagctatga ccatgggtgc tcagacaccc aaaag 45

<210> 386
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<220>
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primer

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<222> (22)..(35)
<223> a, c, t, or g

<400> 386
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<210> 387
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 387
cacacaggaa acagctatga ccatgcagga gacccactc atgtt 45

<210> 388
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<220>
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primer

<220>
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<223> a, c, t, or g

<400> 388
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<210> 389
<211> 46
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<220>
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primer

<400> 389
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<210> 390
<211> 55

<212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

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 <222> (22)..(35)
 <223> a, c, t, or g

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 <210> 391
 <211> 45
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 <220>
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 <400> 391
 cacacaggaa acagctatga ccatgcatgc caccaagcag aagta 45

 <210> 392
 <211> 56
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <220>
 <221> modified_base
 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 392
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 <210> 393
 <211> 46

<212> DNA
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 <220>
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 <400> 393
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 <210> 394
 <211> 55
 <212> DNA
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 <220>
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 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 394
 cgacgtaaaa cgacggccag tnnnnnnnnn nnnnnagcat ctggaagaac ctgga 55

 <210> 395
 <211> 45
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 395
 cacacaggaa acagctatga ccatgagcac tcaggctgga tgaac 45

 <210> 396
 <211> 57
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 396
 cgacgtaaaa cgacggccag tnnnnnnnnn nnnnnggacc taagcaagct gcagtaa 57

<210> 397
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 397
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<210> 398
 <211> 58
 <212> DNA
 <213> Artificial Sequence

<220>
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 primer

<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 398
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<210> 399
 <211> 44
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 399
cacacaggaa acagctatga ccatggagcc tcgatgagcc attt 44

<210> 400
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<212> DNA
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<220>
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primer

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<223> a, c, t, or g

<400> 400
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<210> 401
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 401
cacacaggaa acagctatga ccatggggaa tgaaacagaa tcagagc 47

<210> 402
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 402
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 cta 63

<210> 403
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 403
 cacacaggaa acagctatga ccatgaaaac caagagaaag aggagaa 48

<210> 404
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<220>
 <221> modified_base
 <222> (22)..(35)
 <223> a, c, t, or g

<400> 404
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<210> 405
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 405
 cacacaggaa acagctatga ccatgaggac ctattagatg attcagatga tg 52

<210> 406
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 406
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<210> 407
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 407
cacacaggaa acagctatga ccatgcaacc tgttttgtga tggtagaag 49

<210> 408
<211> 55
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 408
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnnccatg ccaacaaagt catca 55

<210> 409
 <211> 44
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 409
 cacacaggaa acagctatga ccatgtgtgc caggacctt acct 44

 <210> 410
 <211> 54
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 410
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 <210> 411
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 411
 cacacaggaa acagctatga ccatgctgga tcccagaagg tgaga 45

 <210> 412
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<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 412
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<210> 413
 <211> 45
 <212> DNA
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<220>
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<400> 413
 cacacaggaa acagctatga ccatgcatc tgcacacacc agttg 45

<210> 414
 <211> 54
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<220>
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<220>
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<400> 414
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<210> 415
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
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 <400> 415
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 <210> 416
 <211> 57
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 <220>
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 <223> a, c, t, or g

 <400> 416
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 <210> 417
 <211> 53
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 417
 cacacaggaa acagctatga ccatgtgttt tcctttactt actacacctc aga 53

 <210> 418
 <211> 57
 <212> DNA
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 <220>
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<221> modified_base
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 <223> a, c, t, or g

<400> 418
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<210> 419
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 419
 cacacaggaa acagctatga ccatgtgtgc cacacatctt tgacc 45

<210> 420
 <211> 56
 <212> DNA
 <213> Artificial Sequence

<220>
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<220>
 <221> modified_base
 <222> (22)..(35)
 <223> a, c, t, or g

<400> 420
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<210> 421
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 421
 cacacaggaa acagctatga ccatgaggag ctgggccatc g 41

<210> 422
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<220>
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primer

<220>
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<223> a, c, t, or g

<400> 422
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<210> 423
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 423
cacacaggaa acagctatga ccatgcttcc tggacacgct ggt 43

<210> 424
<211> 53
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 424
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<210> 425
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 425
cacacaggaa acagctatga ccatggaccc cgccactctc ac

42

<210> 426
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
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<222> (22)..(35)
<223> a, c, t, or g

<400> 426
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnngctcc tcagccaggt cca

53

<210> 427
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 427
cacacaggaa acagctatga ccatgccgag tggcggagct g

41

<210> 428
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 428
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<210> 429
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 429
 cacacaggaa acagctatga ccatgtggct ctgaccattc tgttct 46

<210> 430
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

<400> 430
 cgacgtaaaa cgacggccag tnnnnnnnnnn nnnnngggtc gggtgagagt gg 52

<210> 431
 <211> 44
 <212> DNA
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<220>
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 <400> 431
 cacacaggaa acagctatga ccatggggtc gggtagagga ggtg 44

 <210> 432
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 <223> a, c, t, or g

 <400> 432
 cgacgtaaaa cgacggccag tnnnnnnnnn nnnnnctccc gctgcagacc ct 52

 <210> 433
 <211> 42
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 433
 cacacaggaa acagctatga ccatgagcct tcggctgact gg 42

 <210> 434
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
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<220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 434
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 <210> 435
 <211> 41
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 435
 cacacaggaa acagctatga ccatggggga gagcaggcag c 41

 <210> 436
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 <213> Artificial Sequence

 <220>
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 primer

 <220>
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 <222> (22)..(35)
 <223> a, c, t, or g

 <400> 436
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 <210> 437
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 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 437

ctgtaggacc ttcggtgact g 21

<210> 438

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 438

tgtgccacac atctttgacc 20

<210> 439

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 439

acaaattctc agatcatcag tcctc 25

<210> 440

<211> 16

<212> DNA

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<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 440

aggagctggg ccatcg 16

<210> 441

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 441
gcaggtaccg tgcgacat 18

<210> 442
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 442
cttcctggac acgctggt 18

<210> 443
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 443
gctcctcagc caggtcca 18

<210> 444
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 444
gaccccgcca ctctacccg 20

<210> 445
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 445
caccagcgtg tccaggaag 19

<210> 446
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<220>
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primer

<400> 446
ccgagtggcg gagctg 16

<210> 447
<211> 17
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<213> Artificial Sequence

<220>
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primer

<400> 447
gggtcgggtg agagtgg 17

<210> 448
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 448
tggctctgac cattctgttc t 21

<210> 449
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

primer

<400> 449
ctcccgctgc agaccct 17

<210> 450
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
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primer

<400> 450
gggtcgggta gaggagggtg 19

<210> 451
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 451
ggcctccgac cgtaactatt 20

<210> 452
<211> 17
<212> DNA
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<220>
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primer

<400> 452
agccttcggc tgactgg 17

<210> 453
<211> 19
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<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 453
cacctcctct acccgaccc 19

<210> 454
<211> 16
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 454
ggggagagca ggcagc 16

<210> 455
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 455
tggtccatcc tctgctgtca 20

<210> 456
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<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 456
gggtatgtgg ctacatgttc ct 22

<210> 457
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primer

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primer

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primer

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primer

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<400> 732
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<400> 780
aacgtatgaa cagca 15

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<210> 782
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<400> 782
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<210> 783
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<400> 783
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<210> 784
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primer

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primer

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<210> 811
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primer

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<223> Description of Artificial Sequence: Synthetic primer

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 primer

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<210> 818
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 primer

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<210> 820
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<210> 823
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<210> 825
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<210> 827
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<210> 828
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 primer

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 <210> 829
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 <210> 830
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 <210> 831
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primer

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<223> Description of Artificial Sequence: Synthetic
primer

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<210> 834

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<223> Description of Artificial Sequence: Synthetic
primer

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<210> 835

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primer

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<210> 836
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<223> Description of Artificial Sequence: Synthetic
primer

<400> 836
ctcggcattc ctgctgaacc gctcttccga tct 33

<210> 837
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 837
cggaagagcg tcgtgtaggg aaagagtgt 29

<210> 838
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 838
cggaagagcg gttcagcagg aatgccgag 29

<210> 839
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 839
ggttacaggc tcatgatgta acc 23

<210> 840
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 840
gataccagct tggtaatggc a 21

<210> 841
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
<221> modified_base
<222> (22)..(33)
<223> a, c, t, g, unknown or other

<400> 841
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnggttaca ggctcatgat gtaacc 56

<210> 842
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 842
cacacaggaa acagctatga ccatggatac cagcttggtta atggca 46

<210> 843

<211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 843
 aatgatacgg cgaccaccga gatctacacc gtgatcgacg taaaacgacg gccagt 56

 <210> 844
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 844
 aatgatacgg cgaccaccga gatctacaca catcgcgacg taaaacgacg gccagt 56

 <210> 845
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 845
 aatgatacgg cgaccaccga gatctacacg cctaacgacg taaaacgacg gccagt 56

 <210> 846
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 846
 aatgatacgg cgaccaccga gatctacact ggtcacgacg taaaacgacg gccagt 56

<210> 847
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 847
 aatgatacgg cgaccaccga gatctacacc actgtcgacg taaaacgacg gccagt 56

 <210> 848
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 848
 aatgatacgg cgaccaccga gatctacaca ttggccgacg taaaacgacg gccagt 56

 <210> 849
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 849
 aatgatacgg cgaccaccga gatctacacg atctgacgacg taaaacgacg gccagt 56

 <210> 850
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 850
 aatgatacgg cgaccaccga gatctacact caagtcgacg taaaacgacg gccagt 56

<210> 851
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 851
 aatgatacgg cgaccaccga gatctacacc tgatccgacg taaaacgacg gccagt 56

 <210> 852
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 852
 aatgatacgg cgaccaccga gatctacaca agctacgacg taaaacgacg gccagt 56

 <210> 853
 <211> 49
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 853
 caagcagaag acggcatacg agatcacaca ggaaacagct atgaccatg 49

 <210> 854
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 854
 cgacgtaaaa cgacggccag t 21

<210> 855
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 855
actggccgtc gttttacgtc g 21

<210> 856
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<220>
<221> modified_base
<222> (22)..(35)
<223> a, c, t, g, unknown or other

<400> 856
cgacgtaaaa cgacggccag tnnnnnnnnn nnnnngcagc aacagtctta cctggact 58

<210> 857
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 857
cacacaggaa acagctatga ccatgtccac atcctcttcc tcaggatt 48

<210> 858
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 858
 aatgatacgg cgaccaccga gatctacacc gacgtaaaac gacggccagt 50

<210> 859
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 859
 caagcagaag acggcatacg agatatcacg cacacaggaa acagctatga ccatg 55

<210> 860
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 860
 caagcagaag acggcatacg agatcgatgt cacacaggaa acagctatga ccatg 55

<210> 861
 <211> 55
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 861
 caagcagaag acggcatacg agattgacca cacacaggaa acagctatga ccatg 55

<210> 862
 <211> 55
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 862

caagcagaag acggcatacg agatgccaat cacacaggaa acagctatga ccatg 55

<210> 863

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 863

caagcagaag acggcatacg agatcagatc cacacaggaa acagctatga ccatg 55

<210> 864

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 864

caagcagaag acggcatacg agatacttga cacacaggaa acagctatga ccatg 55

<210> 865

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 865

caagcagaag acggcatacg agatgatcag cacacaggaa acagctatga ccatg 55

<210> 866

<211> 55

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 866
 caagcagaag acggcatacg agattagctt cacacaggaa acagctatga ccatg 55

 <210> 867
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 867
 caagcagaag acggcatacg agatggctac cacacaggaa acagctatga ccatg 55

 <210> 868
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 868
 caagcagaag acggcatacg agatcttgta cacacaggaa acagctatga ccatg 55

 <210> 869
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 869
 cgacgtaaaa cgacggccag t 21

 <210> 870

<211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 870
 catggtcata gctgtttcct gtgtg 25

<210> 871
 <211> 57
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <220>
 <221> modified_base
 <222> (22)..(35)
 <223> a, c, t, g, unknown or other

 <400> 871
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<210> 872
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 872
 cacacaggaa acagctatga ccatgatgct aaggcgagga tgaaa 45

<210> 873
 <211> 56
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic

primer

<400> 873
aatgatacgg cgaccaccga gatctacaca catcgcgacg taaaacgacg gccagt 56

<210> 874
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 874
aatgatacgg cgaccaccga gatctacacg cctaacgacg taaaacgacg gccagt 56

<210> 875
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 875
aatgatacgg cgaccaccga gatctacact ggtcacgacg taaaacgacg gccagt 56

<210> 876
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 876
aatgatacgg cgaccaccga gatctacaca ttggccgacg taaaacgacg gccagt 56

<210> 877
<211> 56
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 877
aatgatacgg cgaccaccga gatctacacg atctgcgacg taaaacgacg gccagt 56

<210> 878
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 878
aatgatacgg cgaccaccga gatctacact caagtcgacg taaaacgacg gccagt 56

<210> 879
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 879
aatgatacgg cgaccaccga gatctacacc tgatccgacg taaaacgacg gccagt 56

<210> 880
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 880
caagcagaag acggcatacg agatcacaca ggaaacagct atgaccatg 49

<210> 881
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 881
 cgacgtaaaa cgacggccag t 21

<210> 882
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 882
 cctaattccc cccatcctta c 21

<210> 883
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 883
 actggccgtc gttttacgtc g 21

<210> 884
 <211> 77
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 884
 ggttacaggc tcatgatgta acctctgtgt cttggtgtaa ctttaaaaca tatttttgcc 60
 attaccaagc tggatc 77

<210> 885
 <211> 77

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 885
 ggttacaggc tcatgatgta acctctgtgt cttggtgsaa ctttaaaaca tatttttgcc 60
 attaccaagc tggatc 77

 <210> 886
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <220>
 <221> modified_base
 <222> (25)..(36)
 <223> a, c, t, g, unknown or other

 <400> 886
 acactctttc cctacacgac gctcnnnnnn nnnnnnggtg agtctgtgca ggcat 55

 <210> 887
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 887
 ctcgagcact gtcctgactg agacgatacc agcttggtaa tggca 45

 <210> 888
 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 888
aatgatacgg cgaccaccga gatctacacc gtgatacact ctttcctac acgacgctc 59

<210> 889
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 889
caagcagaag acggcatacg agatctcgag cactgtcctg actgagac 48

<210> 890
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 890
acactctttc cctacacgac gctc 24

<210> 891
<211> 22
<212> DNA
<213> Homo sapiens

<400> 891
gaagaccata acccaccaca gc 22

<210> 892
<211> 10
<212> DNA
<213> Homo sapiens

<400> 892
cccaagtgac 10