SEQUENCE LISTING

<110> BioNTech RNA Pharmaceuticals GmbH et al.

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<170> PatentIn version 3.5

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uuccuguugc cagcaugacc uacccucgcc ucuuugaugc cauccgcugc caccuccuuu 120

ugcuccugga cccuuuagcc ucucugcccu uccacucg 158

<210> 57
<211> 197
<212> RNA
<213> Homo sapiens

<400> 57
cucgcuuccu gggucugcag guccagccgg cuggcacccu ccauguaccc aggggagauu 60

ccagccagac acccgccccc cggcccuggc uaagaaguug cuuccuguug ccagcaugac 120

cuacccucgc cucuuugaug ccauccgcug ccaccuccuu uugcuccugg acccuuuagc 180

cucucugccc ccccgau 197

<210> 58
<211> 236
<212> RNA
<213> Homo sapiens

<400> 58
cccagcuccc uaggcguccc aucucgcuuc cugggucugc agguccagcc ggcuggcacc 60

cuccauguac ccaggggaga uuccagccag acacccgccc cccggcccug gcuaagaagu 120

ugcuuccugu ugccagcaug accuacccuc gccucuuuga ugccauccgc ugccaccucc 180

uuuugcuccu ggacccuuua gccucucugc ccuuccacuc uuugaccccc aucuua 236

<210> 59
<211> 273
<212> RNA
<213> Homo sapiens

<400> 59
ggccaccggg caugggaagu augagaaggu gcuuguggaa gggggcccgg cucccuaggc 60

gucccaucuc gcuuccuggg ucugcagguc cagccggcug gcacccucca uguacccagg 120

gagauuccag ccagacaccc gccccccggc ccuggcuaag aaguugcuuc cuguugccag 180

caugaccuac ccucgccucu uugaugccau ccgcugccac cuccuuuugc uccuggaccc 240

uuuagccucu cugcccuucc acucucugac ccc 273

<210> 60
<211> 171
<212> RNA
<213> Homo sapiens

<400> 60
uguacccagg ggagauucca gccagacacc cgccccccgg cccuggcuaa gaaguugcuu 60

ccuguugcca gcaugaccua cccucgccuc uuugaugcca uccgcugcca ccuccuuuug 120

cuccuggacc cuuuagccuc ucugcccuuc cacucucuga ccaccacccc c 171

<210> 61
<211> 134
<212> RNA
<213> Homo sapiens

<400> 61
ccggcccugg cuaagaaguu gcuuccuguu gccagcauga ccuacccucg ccucuuugau 60

gccauccgcu gccaccuccu uuugcuccug gacccuuuag ccucucugcc cuuccacucu 120

cugaccacag cccc 134

<210> 62
<211> 140
<212> RNA
<213> Homo sapiens

<400> 62
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augccauccg cugccaccuc cuuuugcucc uggacccuuu agccucucug cccuuccacu 120

cucugaccac cgcccccgcc 140

<210> 63
<211> 188
<212> RNA
<213> Homo sapiens

<400> 63
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uggcuaagaa guugcuuccu guugccagca ugaccuaccc ucgccucuuu gaugccaucc 120

gcugccaccu ccuuuugcuc cuggacccuu uagccucucu gcccuuccac ucucugacca 180

ccgccccc 188

<210> 64
<211> 190
<212> RNA
<213> Homo sapiens

<400> 64
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cuggcuaaga aguugcuucc uguugccagc augaccuacc cuagccucuu ugaugccauc 120

cgcugccacc uccuuuuugc uccuggaccc uuuagccucu cugcccuucc acucucugac 180

caccgccccc 190

<210> 65
<211> 154
<212> RNA
<213> Homo sapiens

<400> 65
uccagccaga cacccgcccc ccggcccugg cuaagaaguu gcuuccuguu gccagcauga 60

ccuacccucg ccucuuugau gccauccgcu gccaccuccu uuugcuccug gacccuuuag 120

ccucucugcc cuuccacucu cugaccacca cccc 154

<210> 66
<211> 146
<212> RNA
<213> Homo sapiens

<400> 66
gccagacacc cgccccccgg cccuggcuaa gaaguugcuu ccuguugcca gcaugaccua 60

cccucgccuc uuugaugcca uccgcugcca ccuccuuuug cuccuggacc cuuuagccuc 120

ucugcccuuc cacucucuga cccccc 146

<210> 67
<211> 150
<212> RNA
<213> Homo sapiens

<400> 67
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ccuacccucg ccucuuugau gccauccgcu gccaccuccu uuugcuccug gacccuuuag 120

ccucucugcc cuuccacucu cugacccccc 150

<210> 68
<211> 233
<212> RNA
<213> Homo sapiens

<400> 68
cggcucccua ggcgucccau cucgcuuccu gggucugcag guccagccgg cuggcacccu 60

ccauguaccc aggggagauu ccagccagac acccgccccc cggcccuggc uaagaaguug 120

cuuccuguug ccagcaugac cuacccucgc cucuuugaug ccauccgcug ccaccuccuu 180

uugcuccugg acccuuuagc cucucugccc uuccacucuc ugaccacugc ccc 233

<210> 69
<211> 197
<212> RNA
<213> Homo sapiens

<400> 69
ugcaggucca gccggcuggc acccuccaug uacccagggg agauuccagc cagacaccca 60

ccccccggcc cuggcuaaga aguugcuccu guugccagca ugaccuaccc ucgccucuuu 120

gaugccaucc gcugccaccu ccuuuugcuc cuggacccuu uagccucucu gcccuuccac 180

ucucugacca cuacccc 197

<210> 70
<211> 155
<212> RNA
<213> Homo sapiens

<400> 70
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccacu gcccc 155

<210> 71
<211> 134
<212> RNA
<213> Homo sapiens

<400> 71
cccgcccccc ggcccuggcu aagaaguugc uuccuguugc cagcaugacc uacccucgcc 60

ucuuugaugc cauccgcugc caccuccuuu ugcuccugga cccuuuagcc ucucugcccu 120

uccacucucu gacc 134

<210> 72
<211> 147
<212> RNA
<213> Homo sapiens

<400> 72
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uacccucgcc ucuuugaugc cauccgcugc caccuccuuu ugcuccugga cccuuuagcc 120

ucucugcccu uccacucucu gaacacc 147

<210> 73
<211> 192
<212> RNA
<213> Homo sapiens

<400> 73
gagccuacuc ugaugaccgu ggccuuggcu ccuccaggaa ggcucaggag cccuaccucc 60

cugccauuau agcugcuccc cgccagaagc cugugccaac ucucugcauu cccugaucuc 120

cuguggcugu cacccuuggu caccuccgug cugucacugc caucuccccc cugaccccuc 180

gaacccaucc ua 192

<210> 74
<211> 191
<212> RNA
<213> Homo sapiens

<400> 74
gagccuacuc ugaugaccgu ggccuuggcu ccuccaggaa ggcucaggcg cccuaccucc 60

cugccauuau agcugcuccc cgccagaagc cugugccaac ucucugcauu cccugaucuc 120

caucccugug gcugucaccc uuggucaccu ccgugcuguc acugccaucu ccccccugac 180

cccucuaacc c 191

<210> 75
<211> 162
<212> RNA

<213> Homo sapiens

<400> 75
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gccauuauag cugcuccccg ccagaagccu gugccaacuc ucugcauucc cugaucucca 120

ucccuguggc ugucacccuu gguccacugc caucuccccc cc 162

<210> 76
<211> 183
<212> RNA
<213> Homo sapiens

<400> 76
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cugccauuau agcugcuccc cgccagaagc cugugccaac ucucugcauu cccugaucuc 120

caucccugug gcugucaccc uuggucaccu ccgugcuguu acugccaucu ccccccugac 180

ccc 183

<210> 77
<211> 240
<212> RNA
<213> Homo sapiens

<400> 77
gaagagccua cucugaugac cguggccuug gcuccuccag gaaggcucag gagcccuacc 60

ucccugccau uauagcugcu ccccgccaga agccugugcc aacucucugc auucccugau 120

cuccaucccu guggcuguca uccuugguca ccuccgugcu gucacugcca ucuccccccu 180

gaccccucua acccauccuc ugccucccuc ccugcaguca gaggguccug uucccaacca 240

<210> 78
<211> 166
<212> RNA
<213> Homo sapiens

<400> 78
uguggccuug gcuccuccag gaaggcuaag gagcccuacc ucccugccau uauagcugcu 60

ccccgccaga agccugugcc aacucucugc auucccugau cuccaucccu guggcuguca 120

cccuugguca ccuccgugcu gucacugcca ucuccccccu gacccc 166

<210> 79

<211> 155
<212> RNA
<213> Homo sapiens

<400> 79
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc ccccc 155

<210> 80
<211> 310
<212> RNA
<213> Homo sapiens

<400> 80
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ccugccauua uagcugcucc ccgccagaag ccugugccaa cucucugcau ucccugaucu 120

ccaucccugu ggcugucacc cuuggucacc uccgugcugu cacugccauc ucccccccuga 180

ccccucuaac ccauccucug ccucccuccc ugcagucaga ggguccuguu cccaucagcg 240

auuccccugc uuaaacccuu ccaugacucc ccacugcccu aagcugaggu cagucuccca 300

agccugacau 310

<210> 81
<211> 204
<212> RNA
<213> Homo sapiens

<400> 81
uauagcugcu ccccgccaga agccugugcc aacucucugc auucccugau cuccaucccu 60

guggcuguca cccuugguca ccuccgugcu gucacugcca ucucccccccu gaccccucua 120

acccauccuc ugccucccuc ccugcaguca gaggguccug uucccaucag cgauuccccu 180

gcuuaaaccc uuccaugaca gccc 204

<210> 82
<211> 169
<212> RNA
<213> Homo sapiens

<400> 82
ucugcauucc cugaucucca ucccuguggc ugucacccuu ggucaccucc gugcugucac 60

ugccaucucc ccccugaccc cucuaaccca uccucugccu cccucccugc agucagaggg 120

uccuguuccc aucagcgauu ccccugcuua agcccuucca ugacucccc 169

<210> 83
<211> 217
<212> RNA
<213> Homo sapiens

<400> 83
cucccugcca uuauagcugc uccccgccag aagccugugc caacucucug cauucccuga 60

ucuccauccc uguggcuguc acccuugguc accuccgugc ugucacugcc aucucccccc 120

ugaccccucu aacccauccu cugccucccu cccugcaguc agaggguccu guucccauca 180

gcgauucccc ugcuuaaacc cuuccaugac uccccaa 217

<210> 84
<211> 272
<212> RNA
<213> Homo sapiens

<400> 84
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gccauuauag cugcucccg ccagaagucu gugccaacuc ucugcauucc cugaucucca 120

ucccuguggc ugucacccuu ggucaccucc gugcugucac ugccaucucc ccccugaccc 180

cucuaaccca uccucugccu cccucccugc agucagaggg uccuguuccc aucagcgauu 240

ccccugcuua aacccuucca ugacuccccu cu 272

<210> 85
<211> 131
<212> RNA
<213> Homo sapiens

<400> 85
cuaccucccu gccauuauag cugcuccccg ccagaagccu gugccaacuc ucugcauucc 60

cugaucucca ucccuguggc ugucacccuu ggucaccucc gugcugucac ugccaucucc 120

ccccugaccc c 131

<210> 86
<211> 136
<212> RNA
<213> Homo sapiens

<400> 86
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ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucc 136

<210> 87
<211> 203
<212> RNA
<213> Homo sapiens

<400> 87
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cacccuggua cugcaugcac gcaaugcuag cugccccuuu cccguccugg gcaccccgag 120

ucucccccga ccccgggucc cagguaugcu cccaccucca ccugccccac ucaccaccuc 180

ugcuaguucc agacaccccc gcg 203

<210> 88
<211> 197
<212> RNA
<213> Homo sapiens

<400> 88
ccuuccccg uuuugaacau guguaaccga cagucugccu gggccacagc ccucucaccc 60

ugguacugca ugcacgcaau gcuagcugcc ccuuucccgc ccugggcacc ccgagucucc 120

cccgaccccg ggucccaggu augcucccac cuccaccugc cccacucacc accucugcua 180

guuccagaca ccuccac 197

<210> 89
<211> 273
<212> RNA
<213> Homo sapiens

<400> 89
ucugccuggg ccacagcccu cucacccugg uacugcaugc acgcaaugcu agcugccccu 60

uucccguccu gggcaccccg agucuccccc gaccccgggu cccagguaug cucccaccuc 120

caccugcccc acucaccacc ucugcuaguu ccagacaccu ccacgcccac cugguccucu 180

cccaucgccc acaaaagggg gggcacgagg gacgagcuua gcugagcugg gaggagcagg 240

gugagggugg gcgacccagg auuccccccac ccc 273

<210> 90
<211> 199
<212> RNA
<213> Homo sapiens

<400> 90
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ggcaggccaa ggccugcugg gcccccgcgg acccaggugc ucugggucac ggucccuguc 120

cccgcacccc cgcuucuguc ugccccauug uggcuccuca ggcucucucc ccugcucucc 180

caccucuacc uccacccca 199

<210> 91
<211> 193
<212> RNA
<213> Homo sapiens

<400> 91
cucagcugac agcgugggca acgccugccg ccugcucuga ggcccgaucc agugggcagg 60

ccaaggccug cugggccccc gcggacccag gugcucuggg ucacgguccc ugucccgca 120

cccccgcuuc ugucugcccc auuguggcuc cucaggcucu cuccccugcu cucccaccuc 180

uaccuccacu ccc 193

<210> 92
<211> 158
<212> RNA
<213> Homo sapiens

<400> 92
ucugaggccc gauccagugg gcaggccaag gccugcuggg cccccgcgga cccaggugcu 60

cugggucacg gucccugucc ccgcaccccc gcuucugucu gccccauugu ggcuccucag 120

gcucucuccc cugcucuccc accucuaccu ccaccccc 158

<210> 93
<211> 153
<212> RNA
<213> Homo sapiens

<400> 93
ggcccgaucc agugggcagg ccaaggccug cugggccccc gcggacccag gugcucuggg 60

ucacgguccc ugucccgca cccccgcuuc ugucugcccc auuguggcuc cucaggcucu 120

cuccccugcu cucccaccuc uaccuccacc ccc 153

<210> 94
<211> 128
<212> RNA
<213> Homo sapiens

<400> 94
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gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 120

ccgccccc 128

<210> 95
<211> 116
<212> RNA
<213> Homo sapiens

<400> 95
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cauuguggcu ccuuaggcuc ucucccccugc ucucccaccu uuaccuccac cccuac 116

<210> 96
<211> 190
<212> RNA
<213> Homo sapiens

<400> 96
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gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac 190

<210> 97
<211> 191
<212> RNA
<213> Homo sapiens

<400> 97
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gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccaa c 191

<210> 98
<211> 191
<212> RNA
<213> Homo sapiens

<400> 98
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gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccaa c 191

<210> 99
<211> 184
<212> RNA
<213> Homo sapiens

<400> 99
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gggccccccgc ggacccaggu gcucuggguc acggucccug uccccgcacc cccgcuucug 120

ucugccccau uguggcuccu caggcucucu ccccugcucu cccaccucua ccuccaccca 180

cacc 184

<210> 100
<211> 238
<212> RNA
<213> Homo sapiens

<400> 100
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gcaacgccug ccgccugcuc ugaggcccga uccagugggc aggccaaggc cugcugggcc 120

cccgcggacc caggugcucu gggucacggu cccugucccc gcacccccgc uucugucugc 180

cccauugugg cuccucaggc ucucucccccu gcucucccac cucuaccucc acgcccac 238

<210> 101
<211> 234
<212> RNA
<213> Homo sapiens

<400> 101
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aacgccugcc gccugcucug aggcccgauc cagugggcag gccaaggccu gcugggcccc 120

cgcggaccca ggugcucugg gucacggucc cugucccgc acccccgcuu cugucugccc 180

cauuguggcu ccucaggcuc ucucccugc ucucccaccu cuaccuccac accu 234

<210> 102
<211> 258
<212> RNA
<213> Homo sapiens

<400> 102
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uugacaccuc agcugacagc gugggcaacg ccugccgccu gcucugaggc ccgauccagu 120

gggcaggcca aggccugcug ggcccccgcg gacccaggug cucuggguca cggucccugu 180

ccccgcaccc ccgcuucugu cugccccauu guggcuccuc aggcucucuc cccugcucuc 240

ccaccucuac cuccaccc 258

<210> 103
<211> 249
<212> RNA
<213> Homo sapiens

<400> 103
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gcugacagcg ugggcaacgc cugccgccug cucugaggcc cgauccagug ggcaggccaa 120

ggccugcugg gcccccgcgg acccaggugc ucugggucac ggucccuguc cccgcacccc 180

cgcuucuguc ugccccauug uggcuccuca ggcucucucc ccugcucucc caccucuacc 240

uccccccac 249

<210> 104
<211> 226
<212> RNA
<213> Homo sapiens

<400> 104
cugggacucc ccuuacagcc augaccuuga caccucagcu gacagcgugg gcaacgccug 60

ccgccugcuc ugaggcccaa uccagugggc aggccaaggc cugcugggcc cccgcggacc 120

caggugcucu gggucacggu cccugucccc gcacccccgc uucugucugc cccauugugc 180

cuccuuaggc ucucuccccu gcucucccac cucuaccucc accccc 226

<210> 105
<211> 133
<212> RNA
<213> Homo sapiens

<400> 105
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aacuuuuagc aauaaacgaa aguuuaacua agcuauacua accccagggu uggucaauuu 120

cgugccagcc acc 133

<210> 106
<211> 233
<212> RNA
<213> Homo sapiens

<400> 106
cuuucuauua gcucuuagua agauuacaca ugcaagcauc cccguuccag ugaguucacc 60

cucuaaauca ccacgauaaa aagggacaag caucaagcac gcagcaaugc agcucaaaac 120

gcuuagccua gccacacccc cacgggaaac agcagugauu aaccuuuagc aauaaacgaa 180

aguuuaacua agcuauacua accccagggu uggucaauuu cgugccagcu acc 233

<210> 107
<211> 190
<212> RNA
<213> Homo sapiens

<400> 107
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gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc agugauuaac 120

cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg ucaauuucgu 180

gccagccacc 190

<210> 108
<211> 154
<212> RNA
<213> Homo sapiens

<400> 108

aaagggacaa gcaucaagca cgcagcaaug cagcucaaaa cgcuuagccu agccacaccc 60

ccacgggaaa cagcagugau uaaccuuuag caauaaacga aaguuuaacu aagcuauacu 120

aaccccaggg uuggucaauu ucgugccagc cacc 154

<210> 109
<211> 158
<212> RNA
<213> Homo sapiens

<400> 109
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acccccacgg gaaacagcag ugauuaaccu uuagcaauaa acgaaaguuu aacuaagcua 120

cacuaacccc aggguuggguc aauuucgugc cagccacc 158

<210> 110
<211> 210
<212> RNA
<213> Homo sapiens

<400> 110
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gacaagcauc aagcacgcag caaugcagcu caaaaacgcu uagccuagcc acacccccac 120

gggaaacagc agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc 180

ccaggguugg ucaauuucgu gccagccacc 210

<210> 111
<211> 143
<212> RNA
<213> Homo sapiens

<400> 111
caucaagcac gcagcaaugc agcucaaaac gcuuagccua gccacacccc cacgggaaac 60

agcagugauu aaccuuuagc aauaaacgaa aguuuaacua agcuauacua accccagggu 120

uggucaauuu cgugccaacc acc 143

<210> 112
<211> 154
<212> RNA
<213> Homo sapiens

<400> 112

aaagggacaa gcaucaagca cgcagcaaug cagcucaaaa cgcuuagccu agccacaccc 60

ccacgggaaa cagcagugau uaaccuuuag caauaaacga aaguuuaacu aagcuauacu 120

aaccccaggg uuggucaauu ucgugccaac cacc 154

<210> 113
<211> 140
<212> RNA
<213> Homo sapiens

<400> 113
caagcacgca acaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccaaccacc 140

<210> 114
<211> 144
<212> RNA
<213> Homo sapiens

<400> 114
caucaagcac gcagcaaugc agcucaaaac gcuuagccua gccacacccc caugggaaac 60

agcagugauu aaccuuuagc aauaaacgaa aguuuaacua agcuauacua accccagggu 120

uggucaauuu cgugccagcu cacc 144

<210> 115
<211> 142
<212> RNA
<213> Homo sapiens

<400> 115
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca cc 142

<210> 116
<211> 140
<212> RNA
<213> Homo sapiens

<400> 116
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccacc 140

<210> 117
<211> 162
<212> RNA
<213> Homo sapiens

<400> 117
cacgaucaaa agggacaagc aucaagcacg cagcaaugca gcucaaaacg cuuagccuag 60

ccacaccccc acgggaaaca gcagugauua accuuuagca auaaacgaaa guuuaacuaa 120

gcuauacuaa ccccaggguu ggucaauuuc gugccagcca cc 162

<210> 118
<211> 170
<212> RNA
<213> Homo sapiens

<400> 118
uaaaucacca cgaucaaaag ggacaagcau caagcacgca gcaaugcagc ucaaaacgcu 60

uagccuagcc acacccccac gggaaacagc agugauuaac cuuuagcaau aaacgaaagu 120

uuaacuaagc uauacuaacc ccaggguugg ucaauuucgu gccagccacc 170

<210> 119
<211> 236
<212> RNA
<213> Homo sapiens

<400> 119
agccuuucua uuagcucuua guaagauuac acaugcaagc aucccguuc cagugaguuc 60

acccucuaaa ucaccacgau caaaagggac aagcaucaag cacgcagcaa ugcagcucaa 120

aacgcuuagc cuagccacac ccccacggga aacagcagug auuaaccuuu agcaauaaac 180

gaaaguuuaa cuaagcuaua cuaaccccag gguuggucaa uuucgugcca gccacc 236

<210> 120
<211> 151
<212> RNA
<213> Homo sapiens

<400> 120
gggacaagca ucaagcacgc agcaaugcag cucaaaacgc uuagccuagc cacacccca 60

cgggaaacag cagugauuaa ccuuuagcaa uaaacgaaag uuuaacuaag cuauacuaac 120

cccaggguug gucaauuucg ugccagccac c 151

<210> 121
<211> 151
<212> RNA
<213> Homo sapiens

<400> 121
gggacaagca ucaagcacgc agcaaugcag cucaaaacgc uuagccuagc cacaccccca 60

cgggaaacag cagugauuaa ccuuuagcaa uaaacgaaag uuuaacuaag cuauacuaac 120

cccaggguug gucaauuucg ugccagccac c 151

<210> 122
<211> 253
<212> RNA
<213> Homo sapiens

<400> 122
uucugcccca gcuuugcagg augaaacacu uccccgcuug gcucucauuc uuccacaaga 60

gagaccuuuc uccggaccug guugcuacug guucagcaac ucugcagaaa auguccuccc 120

cuguggcugc cucagcucau gccuuuggcc ugaaguccca gcauugaugg cagccccuca 180

ucuuccaagu uuugugcucc ccuuuaccua acgcuuccug ccucccaugc aucuguacuc 240

cuucugugcc acu 253

<210> 123
<211> 253
<212> RNA
<213> Homo sapiens

<400> 123
uucugcccca gcuuugcagg augaaacacu uccccgcuug gcucucauuc uuccacaaga 60

gagaccuuuc uccggaccug guugcuacug guucagcaac ucugcagaaa auguccuccc 120

cuguggcugc cucagcucau gccuuuggcc ugaaguccca gcauugaugg cagccccuca 180

ucuuccaagu uuugugcucc ccuuuaccua acgcuuccug ccucccaugc aucuguacuc 240

cuucugugcc acu 253

<210> 124
<211> 250

<212> RNA
<213> Homo sapiens

<400> 124
ccccagcuuu gcaggaugaa acacuucccc gcuuggcucu cauucuucca caagagagac 60

cuuucuccgg accugguugc uacugguuca gcaacucugc agaaaauguc cucccugug 120

gcugccucag cucaugccuu uggccugaag ucccagcauu gauggcagcc ccucaucuuc 180

caaguuuugu gcucccuuu accuaacgcu uccugccucc caugcaucug uacuccuccu 240

gugccacaaa 250

<210> 125
<211> 250
<212> RNA
<213> Homo sapiens

<400> 125
ccccagcuuu gcaggaugaa acacuucccc gcuuggcucu cauucuucca caagagagac 60

cuuucuccgg accugguugc uacugguuca gcaacucugc agaaaauguc cucccugug 120

gcugccucag cucaugccuu uggccugaag ucccagcauu gauggcagcc ccucaucuuc 180

caaguuuugu gcucccuuu accuaacgcu uccugccucc caugcaucug uacuccuccu 240

gugccacaaa 250

<210> 126
<211> 233
<212> RNA
<213> Homo sapiens

<400> 126
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc ucc 233

<210> 127
<211> 228
<212> RNA
<213> Homo sapiens

<400> 127
ugcaggauga aacacuuccc cgcuuggcuc ucauucuucc acaggagaga ccuuucuccg 60

gaccugguug cuacugguuc agcaacucug cagaaaaugu ccucccugu ggcugccuca 120

gcucaugccu uuggccugaa gucccagcau ugauggcagc cccucaucuu ccaaguuuug 180

ugcuccccuu uaccuaacgc uuccugccuc ccaugcaucu guacucca 228

<210> 128
<211> 280
<212> RNA
<213> Homo sapiens

<400> 128
gugaagauga ccacauucaa ggaagaaccu ucugccccag cuuugcagga ugaaacacuu 60

ccccgcuugg cucuccuucu uccacaagag agaccuuucu ccggaccugg uugcuacugg 120

uucagcagcu cugcagaaaa uguccucccu uguggcugcc ucagcucgua ccuuuggccu 180

gaagucccag cauuaauggc agccccucau cuuccaaguu uugugcuccc cuuuaccuaa 240

ugcuuccugc cucccaugca ucuguacucc ugcugugcca 280

<210> 129
<211> 207
<212> RNA
<213> Homo sapiens

<400> 129
uccacaagag agaccuuucu ccggaccugg cugcuacugg uucagcagcu cugcagaaaa 60

uguccucccu uguggcugcc ucagcucgua ccuuuggccu gaagucccag cauuaauggc 120

agccccucau cuuccaaguu uugugcuccc cuuuaccuaa ugcuuccugc cucccaugca 180

ucuguacucc ugcugugcca caaacac 207

<210> 130
<211> 207
<212> RNA
<213> Homo sapiens

<400> 130
uccacaagag agaccuuucu ccggaccugg cugcuacugg uucagcagcu cugcagaaaa 60

uguccucccu uguggcugcc ucagcucgua ccuuuggccu gaagucccag cauuaauggc 120

agccccucau cuuccaaguu uugugcuccc cuuuaccuaa ugcuuccugc cucccaugca 180

ucuguacucc ugcugugcca caaacac 207

<210> 131
<211> 163
<212> RNA
<213> Homo sapiens

<400> 131
gcuacugguu cagcagcucu gcagaaaaug uccucccuug uggcugccuc agcucguacc 60

uuuggccuga agucccagca uuaauggcag ccccucaucu uccaaguuuu gugcuccccu 120

uuaccuaaug cuuccugccu cccaugcauc uguacuccug cgu 163

<210> 132
<211> 249
<212> RNA
<213> Homo sapiens

<400> 132
agaaccuucu gccccagcuu ugcaggauga aacacuuccc cgcuuggcuc ucauucuucc 60

acaagagaga ccuuucuccg gaccugguug cuacugguuc agcagcucug cagaaaaugu 120

ccucccuugu ggcugccuca gcucguaccu uuggccugaa gucccagcau uaauggcagc 180

cccucaucuu ccaaguuuug ugcuccccuu uaccuaaugc uuccugccuc ccaugcaucu 240

guacuccug 249

<210> 133
<211> 249
<212> RNA
<213> Homo sapiens

<400> 133
agaaccuucu gccccagcuu ugcaggauga aacacuuccc cgcuuggcuc ucauucuucc 60

acaagagaga ccuuucuccg gaccugguug cuacugguuc agcagcucug cagaaaaugu 120

ccucccuugu ggcugccuca gcucguaccu uuggccugaa gucccagcau uaauggcagc 180

cccucaucuu ccaaguuuug ugcuccccuu uaccuaaugc uuccugccuc ccaugcaucu 240

guacuccug 249

<210> 134
<211> 264
<212> RNA
<213> Homo sapiens

<400> 134

ugaagaugac cacauucaag gaagaaccuu cugccccagc uuugcaggau gaaacacuuc 60

cccgcuuggc ucucauucuu ccacaagaga gaccuuucuc cggaccuggu uguucagcag 120

cucugcagaa aauguccucc cuuguggcug ccucagcucg uaccuuuggc cugaaguccc 180

agcauuaaug gcagccccuc aucuuccaag uuuugugcuc cccuuuaccu aaugcuuccu 240

gccucccaug caucuguacu ccug 264

<210> 135
<211> 270
<212> RNA
<213> Homo sapiens

<400> 135
ugaagaugac cacauucaag gaagaaccuu cugccccagc uuugcaggau gaaacacuuc 60

cccgcuuggc ucucauucuu ccacaagaga gaccuuucuc cggaccuggu ugcuacuggu 120

ucagcagcuc ugcagaaaau guccucccuu guggcugccu cagcucguac cuuuggccug 180

aagucccagc auuaauggca gccccucauc uuccaaguuu ugugcucccc uuuaccuaau 240

gcuuccugcc ucccaugcau cuguacuccc 270

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

<400> 136
ccacauucaa ggaagaaccu ucugccccag cuuugcagga ugaaacacuu ccccgcuugg 60

cucucauucu uccacaagag agaccuuucu ccggaccugg uugcuacugg uucagcagcu 120

cugcagaaaa uguccucccu uguggcugcc ucagcucgua ccuuuggccu gaagucccag 180

cauuaauggc agccccucau cuuccaaguu uugugcuccc cuuuaccuaa ugcuuccugc 240

ccccc 245

<210> 137
<211> 257
<212> RNA
<213> Homo sapiens

<400> 137
gugaagauga ccacauucaa ggaagaaccu ucugccccag cuuugcagga ugaaacacuu 60

ccccgcuugg cucucauucu uccacaagag agaccuuucu ccggaccugg uugcuacugg 120

uucagcagcu cugcagaaaa uguccucccu uguggcugcc ucagcucgua ccuuuggccu 180

gaagucccag cauuaauggc agccccucau cuuccaaguu uugugcuccc cuuuaccuaa 240

ugcuuccugc cccccau 257

<210> 138
<211> 209
<212> RNA
<213> Homo sapiens

<400> 138
agaaccuucu gccccagcuu ugcaggauga aacacuuccc cgcuuggcuc ucauucuucc 60

acaagagaga ccuuucuccg gaccuggguug cuacugguuc agcagcucug cagaaaaugu 120

ccucccuugu ggcugccuca gcucguaccu uuggccugaa gucccagcau uaauggcagc 180

cccucaucuu ccaaguuuug ugcucccccc 209

<210> 139
<211> 276
<212> RNA
<213> Homo sapiens

<400> 139
cugaagugaa gaugaccaca uucaaggaag aaccuucugc cccagcuuug caggaugaaa 60

cacuuccccg cuuggcucuc auucuuccac aagagagacc uuucuccgga ccugguugcu 120

acugguucag cagcucugca gaaaaugucc ucccuugugg cugccucagc ucguaccuuu 180

ggccugaagu cccagcauua auggcagccc cucaucuucc aaguuuugug cuccccuuua 240

ccuaaugcuu ccugccuccc augcaucugu acuccu 276

<210> 140
<211> 276
<212> RNA
<213> Homo sapiens

<400> 140
cugaagugaa gaugaccaca uucaaggaag aaccuucugc cccagcuuug caggaugaaa 60

cacuuccccg cuuggcucuc auucuuccac aagagagacc uuucuccgga ccugguugcu 120

acugguucag cagcucugca gaaaaugucc ucccuugugg cugccucagc ucguaccuuu 180

ggccugaagu cccagcauua auggcagccc cucaucuucc aaguuuugug cuccccuuua 240

ccuaaugcuu ccugccuccc augcaucugu acuccu 276

<210> 141
<211> 270
<212> RNA
<213> Homo sapiens

<400> 141
aagaugacca cauucaagga agaaccuucu gccccagcuu ugcaggauga aacacuuccc 60

cgcuuggcuc ucauucuucc acaagagaga ccuuucuccg gaccugguug cuacugguuc 120

agcagcucug cagaaaaugu ccucccuugu ggcugccuca gcucguaccu uuggccugaa 180

gucccagcau uaauggcagc cccucaucuu ccaaguuuug ugcuccccuu uaccuaaugc 240

uuccugccuc ccaugcaucu guacuccugc 270

<210> 142
<211> 211
<212> RNA
<213> Homo sapiens

<400> 142
ccccgcuugg cucucauucu uccacaagag agaccuuucu ccggaccugg uugcuacugg 60

uucagcagcu cugcagaaaa uguccucccu uguggcugcc ucagcucgua ccuuuggccu 120

gaagucccag cauuaauggc agccccucau cuuccaaguu uugugcuccc cuuuaccuaa 180

ugcuuccugc cucccaugca ucuguacucc u 211

<210> 143
<211> 211
<212> RNA
<213> Homo sapiens

<400> 143
ccccgcuugg cucucauucu uccacaagag agaccuuucu ccggaccugg uugcuacugg 60

uucagcagcu cugcagaaaa uguccucccu uguggcugcc ucagcucgua ccuuuggccu 120

gaagucccag cauuaauggc agccccucau cuuccaaguu uugugcuccc cuuuaccuaa 180

ugcuuccugc cucccaugca ucuguacucc u 211

<210> 144
<211> 286
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 144
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug accugcccgu ccucaccaag acugacugcc ugcugcuuug 180

cuacugcccg ggcccaugag acugacuucc cacugcucug ccugccucuc cccacugcac 240

uggcacagcc ccgccuugcc gcugcugauc cauugccggu gugacc   286

<210> 145
<211> 292
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 145
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug accuuccagc cagacacccg ccccccggcc cuggcuaaga 180

aguugcuucc uguugccagc augaccuacc cucgccucuu ugaugccauc cgcugccacc 240

uccuuuugcu ccuggacccu uuagccucuc ugcccuucca cucucugacc cc   292

<210> 146
<211> 298
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 146
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug accgccuugg cuccuccagg aaggcucagg agcccuaccu 180

cccugccauu auagcugcuc cccgccagaa gccugugcca acucucugca uucccugauc 240

uccaucccug uggcugucac ccuuggucac cuccgugcug ucacugccau cucccccc   298

<210> 147
<211> 279
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 147
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug acccugguac ugcaugcacg caaugcuagc ugccccuuuc 180

ccguccuggg uaccccgagu cucccccgac cucggguccc agguaugcuc ccaccuccac 240

cugccccacu caccaccucu gcuaguucca gacaccucc 279

<210> 148
<211> 333
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 148
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug acccugacag cgugggcaac gccugccgcc ugcucugagg 180

cccgauccag ugggcaggcc aaggccugcu gggcccccgc ggacccaggu gcucuggguc 240

acggucccug uccccgcacc cccgcuucug ucugccccau uguggcuccu caggcucucu 300

ccccugcucu cccaccucua ccuccacccc cac 333

<210> 149
<211> 285
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 149
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug accgagagcu cgcuuucuug cuguccaauu ucuauuaaag 180

guuccuuugu ucccuaaguc caacuacuaa acuggggggau auuaugaagg gccuugagca 240

ucuggauucu gccuaauaaa aaacauuuau uuucauugcu gcguc 285

<210> 150
<211> 285
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 150
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug acccaagcac gcagcaaugc agcucaaaac gcuuagccua 180

gccacacccc cacgggaaac agcagugauu aaccuuuagc aauaaacgaa aguuuaacua 240

agcuauacua accccagggu uggucaauuu cgugccagcc acacc 285

<210> 151
<211> 376
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 151
ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc ccaugagacu 60

gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg ccuugccgcu 120

gcugauccau ugccggugug acccuuugca ggaugaaaca cuuccccgcu uggcucucau 180

ucuuccacaa gagagaccuu ucuccggacc ugguugcuac ugguucagca acucugcaga 240

aaauguccuc cccuguggcu gccucagcuc augccuuugg ccugaagucc cagcauugau 300

ggcagccccu caucuuccaa guuuugugcu ccccuuuacc uaacgcuucc ugccucccau 360

gcaucuguac uccucc 376

<210> 152
<211> 292
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 152
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accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccu gcccguccuc accaagacug acugccugcu 180

gcuuugcuac ugcccgggcc caugagacug acuucccacu gcucugccug ccucucccca 240

cugcacuggc acagccccgc cuugccgcug cugauccauu gccgguguga cc 292

<210> 153
<211> 298
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 153
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccu uccagccaga cacccgcccc ccggcccugg 180

cuaagaaguu gcuuccuguu gccagcauga ccuacccucg ccucuuugau gccauccgcu 240

gccaccuccu uuugcuccug gacccuuuag ccucucugcc cuuccacucu cugacccc 298

<210> 154
<211> 304
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 154
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccg ccuuggcucc uccaggaagg cucaggagcc 180

cuaccucccu gccauuauag cugcuccccg ccagaagccu gugccaacuc ucugcauucc 240

cugaucucca ucccuguggc ugucacccuu ggucaccucc gugcugucac ugccaucucc 300

cccc 304

<210> 155
<211> 285
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 155
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccc ugguacugca ugcacgcaau gcuagcugcc 180

ccuuucccgu ccuggguacc ccgagucucc cccgaccucg ggucccaggu augcucccac 240

cuccaccugc cccacucacc accucugcua guuccagaca ccucc 285

<210> 156
<211> 339
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 156
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccc ugacagcgug ggcaacgccu gccgccugcu 180

cugaggcccg auccaguggg caggccaagg ccugcugggc ccccgcggac ccaggugcuc 240

ugggucacgg ucccuguccc cgcacccccg cuucugucug ccccauugug gcuccucagg 300

cucucucccc ugcucuccca ccucuaccuc cacccccac 339

<210> 157
<211> 291
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 157
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccg agagcucgcu uucuugcugu ccaauuucua 180

uuaaagguuc cuuuguuccc uaaguccaac uacuaaacug ggggauauua ugaagggccu 240

ugagcaucug gauucugccu aauaaaaaac auuuauuuuc auugcugcgu c 291

<210> 158
<211> 291
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 158
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccc aagcacgcag caaugcagcu caaaacgcuu 180

agccuagcca cacccccacg ggaaacagca gugauuaacc uuuagcaaua aacgaaaguu 240

uaacuaagcu auacuaaccc caggguuggu caauuucgug ccagccacac c 291

<210> 159
<211> 382
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 159
uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu ugccagcaug 60

accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu ggacccuuua 120

gccucucugc ccuuccacuc ucugaccccc uuugcaggau gaaacacuuc cccgcuuggc 180

ucucauucuu ccacaagaga gaccuuucuc cggaccuggu ugcuacuggu ucagcaacuc 240

ugcagaaaau guccucccccu guggcugccu cagcucaugc cuuuggccug aagucccagc 300

auugauggca gccccucauc uuccaaguuu ugugcucccc uuuaccuaac gcuuccugcc 360

ucccaugcau cuguacuccu cc 382

<210> 160
<211> 298
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 160
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc cccccugccc guccucacca agacugacug 180

ccugcugcuu ugcuacugcc cgggcccaug agacugacuu cccacugcuc ugccugccuc 240

uccccacugc acuggcacag ccccgccuug ccgcugcuga uccauugccg gugugacc 298

<210> 161
<211> 304
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 161
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc cccccuucca gccagacacc cgccccccgg 180

cccuggcuaa gaaguugcuu ccuguugcca gcaugaccua cccucgccuc uuugaugcca 240

uccgcugcca ccuccuuuug cuccuggacc cuuuagccuc ucugcccuuc cacucucuga 300

cccc 304

<210> 162
<211> 310
<212> RNA
<213> Artificial Sequence

<220>

<223> Combination of 3'-UTR sequence elements

<400> 162
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc cccccgccuu ggcuccucca ggaaggcuca 180

ggagcccuac cucccugcca uuauagcugc uccccgccag aagccugugc caacucucug 240

cauucccuga ucuccauccc uguggcuguc acccuugguc accuccgugc ugucacugcc 300

aucucccccc 310

<210> 163
<211> 291
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 163
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc ccccccuggu acugcaugca cgcaaugcua 180

gcugccccuu ucccguccug gguaccccga gucucccccg accucggguc ccagguaugc 240

ucccaccucc accugcccca cucaccaccu cugcuaguuc cagacaccuc c 291

<210> 164
<211> 345
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 164
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc ccccccugac agcgugggca acgccugccg 180

ccugcucuga ggcccgaucc agugggcagg ccaaggccug cugggccccc gcggacccag 240

gugcucuggg ucacgguccc ugucccccgca cccccgcuuc ugucugcccc auuguggcuc 300

cucaggcucu cuccccugcu cucccaccuc uaccuccacc cccac 345

<210> 165
<211> 297
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 165
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc cccccgagag cucgcuuucu ugcuguccaa 180

uuucuauuaa agguuccuuu guucccuaag uccaacuacu aaacuggggg auauuaugaa 240

gggccuugag caucuggauu cugccuaaua aaaaacauuu auuuucauug cugcguc 297

<210> 166
<211> 297
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 166
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc ccccccaagc acgcagcaau gcagcucaaa 180

acgcuuagcc uagccacacc cccacgggaa acagcaguga uuaaccuuua gcaauaaacg 240

aaaguuuaac uaagcuauac uaaccccagg guuggucaau uucgugccag ccacacc 297

<210> 167
<211> 388
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 167
gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua gcugcucccc 60

gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg cugucacccu 120

uggucaccuc cgugcuguca cugccaucuc ccccccuuug caggaugaaa cacuuccccg 180

cuuggcucuc auucuuccac aagagagacc uuucuccgga ccugguugcu acugguucag 240

caacucugca gaaaaugucc uccccugugg cugccucagc ucaugccuuu ggccugaagu 300

cccagcauug auggcagccc cucaucuucc aaguuuugug cuccccuuua ccuaacgcuu 360

ccugccuccc augcaucugu acuccucc 388

<210> 168
<211> 279
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 168
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ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accuccugcc cguccucacc aagacugacu gccugcugcu uugcuacugc 180

ccgggcccau gagacugacu ucccacugcu cugccugccu cuccccacug cacuggcaca 240

gccccgccuu gccgcugcug auccauugcc ggugugacc 279

<210> 169
<211> 285
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 169
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accuccuucc agccagacac ccgccccccg gcccuggcua agaaguugcu 180

uccuguugcc agcaugaccu acccucgccu cuuugaugcc auccgcugcc accuccuuuu 240

gcuccuggac ccuuuagccu cucugcccuu ccacucucug acccc 285

<210> 170
<211> 291
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 170
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accuccgccu uggcuccucc aggaaggcuc aggagcccua ccucccugcc 180

auuauagcug cuccccgcca gaagccugug ccaacucucu gcauucccug aucuccaucc 240

cuguggcugu cacccuuggu caccuccgug cugucacugc caucuccccc c 291

<210> 171
<211> 272
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 171
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccugg uacugcaugc acgcaaugcu agcugccccu uucccguccu 180

ggguaccccg agucuccccc gaccucgggu cccagguaug cucccaccuc caccugcccc 240

acucaccacc ucugcuaguu ccagacaccu cc 272

<210> 172
<211> 326
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 172
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccuga cagcgugggc aacgccugcc gccugcucug aggcccgauc 180

cagugggcag gccaaggccu gcugggcccc cgcggaccca ggugcucugg gucacggucc 240

cugucccgc acccccgcuu cugucugccc cauuguggcu ccucaggcuc ucuccccugc 300

ucucccaccu cuaccuccac ccccac 326

<210> 173
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 173
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accuccgaga gcucgcuuuc uugcugucca auuucuauua aagguuccuu 180

uguucccuaa guccaacuac uaaacugggg gauauuauga agggccuuga gcaucuggau 240

ucugccuaau aaaaaacauu uauuuucauu gcugcguc 278

<210> 174
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 174
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 175
<211> 369
<212> RNA
<213> Artificial Sequence

<220>

<223> Combination of 3'-UTR sequence elements

<400> 175
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccuuu gcaggaugaa acacuucccc gcuuggcucu cauucuucca 180

caagagagac cuuucuccgg accuggguugc uacugguuca gcaacucugc agaaaauguc 240

cuccccugug gcugccucag cucaugccuu uggccugaag ucccagcauu gauggcagcc 300

ccucaucuuc caaguuuugu gcucccccuuu accuaacgcu uccugccucc caugcaucug 360

uacuccucc 369

<210> 176
<211> 333
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 176
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac ugcccguccu caccaagacu gacugccugc ugcuuugcua cugcccgggc 240

ccaugagacu gacuucccac ugcucugccu gccucucccc acugcacugg cacagccccg 300

ccuugccgcu gcugauccau ugccggugug acc 333

<210> 177
<211> 339
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 177
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac uuccagccag acacccgccc cccggcccug gcuaagaagu ugcuuccugu 240

ugccagcaug accuacccuc gccucuuuga ugccauccgc ugccaccucc uuuugcuccu 300

ggacccuuua gccucucugc ccuuccacuc ucugacccc 339

<210> 178
<211> 345
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 178
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac gccuuggcuc cuccaggaag gcucaggagc ccuaccuccc ugccauuaua 240

gcugcucccc gccagaagcc ugugccaacu cucugcauuc ccugaucucc aucccugugg 300

cugucacccu uggucaccuc cgugcuguca cugccaucuc ccccc 345

<210> 179
<211> 326
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 179
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac cugguacugc augcacgcaa ugcuagcugc cccuuucccg uccuggguac 240

cccgagucuc ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac 300

caccucugcu aguuccagac accucc 326

<210> 180
<211> 380

<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 180
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg 240

gcaggccaag gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc 300

ccgcaccccc gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc 360

accucuaccu ccacccccac 380

<210> 181
<211> 332
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 181
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc 240

cuaaguccaa cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc 300

uaauaaaaaa cauuuauuuu cauugcugcg uc 332

<210> 182
<211> 332
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 182
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac 240

gggaaacagc agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc 300

ccaggguugg ucaauuucgu gccagccaca cc 332

<210> 183
<211> 423
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 183
cugacagcgu gggcaacgcc ugccgccugc ucugaggccc gauccagugg gcaggccaag 60

gccugcuggg cccccgcgga cccaggugcu cugggucacg gucccugucc ccgcaccccc 120

gcuucugucu gccccauugu ggcuccucag gcucucuccc cugcucuccc accucuaccu 180

ccacccccac cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag 240

agaccuuucu ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc 300

uguggcugcc ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau 360

cuuccaaguu uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc 420

ucc 423

<210> 184
<211> 285
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 184
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg ucugcccguc cucaccaaga cugacugccu gcugcuuugc 180

uacugcccgg gcccaugaga cugacuuccc acugcucugc cugccucucc ccacugcacu 240

ggcacagccc cgccuugccg cugcugaucc auugccggug ugacc 285

<210> 185
<211> 291
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 185
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg ucuuccagcc agacacccgc cccccggccc uggcuaagaa 180

guugcuuccu guugccagca ugaccuaccc ucgccucuuu gaugccaucc gcugccaccu 240

ccuuuugcuc cuggacccuu uagccucucu gcccuuccac ucucugaccc c 291

<210> 186
<211> 297
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 186
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg ucgccuuggc uccuccagga aggcucagga gcccuaccuc 180

ccugccauua uagcugcucc ccgccagaag ccugugccaa cucucugcau ucccugaucu 240

ccaucccugu ggcugucacc cuuggucacc uccgugcugu cacugccauc ucccccc 297

<210> 187
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 187
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg uccugguacu gcaugcacgc aaugcuagcu gccccuuucc 180

cguccugggu accccgaguc ucccccgacc ucggguccca gguaugcucc caccuccacc 240

ugccccacuc accaccucug cuaguuccag acaccucc 278

<210> 188
<211> 332
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 188
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg uccugacagc gugggcaacg ccugccgccu gcucugaggc 180

ccgauccagu gggcaggcca aggccugcug ggcccccgcg gacccaggug cucuggguca 240

cggucccugu ccccgcaccc ccgcuucugu cugccccauu guggcuccuc aggcucucuc 300

cccugcucuc ccaccucuac cuccaccccc ac 332

<210> 189
<211> 284
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 189
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg ucgagagcuc gcuuucuugc uguccaauuu cuauuaaagg 180

uuccuuuguu cccuaagucc aacuacuaaa cuggggggaua uuaugaaggg ccuugagcau 240

cuggauucug ccuaauaaaa aacauuuauu uucauugcug cguc 284

<210> 190
<211> 284

<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 190
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg uccaagcacg cagcaaugca gcucaaaacg cuuagccuag 180

ccacaccccc acgggaaaca gcagugauua accuuuagca auaaacgaaa guuuaacuaa 240

gcuauacuaa ccccaggguu ggucaauuuc gugccagcca cacc 284

<210> 191
<211> 375
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 191
gagagcucgc uuucuugcug uccaauuucu auuaaagguu ccuuuguucc cuaaguccaa 60

cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg uccuuugcag gaugaaacac uuccccgcuu ggcucucauu 180

cuuccacaag agagaccuuu cuccggaccu gguugcuacu gguucagcaa cucugcagaa 240

aauguccucc ccuguggcug ccucagcuca ugccuuuggc cugaaguccc agcauugaug 300

gcagccccuc aucuuccaag uuuugugcuc cccuuuaccu aacgcuuccu gccucccaug 360

caucuguacu ccucc 375

<210> 192
<211> 285
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 192
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca ccugcccguc cucaccaaga cugacugccu gcugcuuugc 180

uacugcccgg gcccaugaga cugacuuccc acugcucugc cugccucucc ccacugcacu 240

ggcacagccc cgccuugccg cugcugaucc auugccggug ugacc 285

<210> 193
<211> 291
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 193
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca ccuuccagcc agacacccgc cccccggccc uggcuaagaa 180

guugcuuccu guugccagca ugaccuaccc ucgccucuuu gaugccaucc gcugccaccu 240

ccuuuugcuc cuggacccuu uagccucucu gcccuuccac ucucugaccc c 291

<210> 194
<211> 297
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 194
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca ccgccuuggc uccuccagga aggcucagga gcccuaccuc 180

ccugccauua uagcugcucc ccgccagaag ccugugccaa cucucugcau ucccugaucu 240

ccaucccugu ggcugucacc cuuggucacc uccgugcugu cacugccauc ucccccc 297

<210> 195
<211> 278
<212> RNA
<213> Artificial Sequence

<220>

<223> Combination of 3'-UTR sequence elements

<400> 195
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca cccugguacu gcaugcacgc aaugcuagcu gccccuuucc 180

cguccugggu accccgaguc ucccccgacc ucgggguccca gguaugcucc caccuccacc 240

ugccccacuc accaccucug cuaguuccag acaccucc 278

<210> 196
<211> 332
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 196
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca cccugacagc gugggcaacg ccugccgccu gcucugaggc 180

ccgauccagu gggcaggcca aggccugcug ggcccccgcg gacccaggug cucuggguca 240

cggucccugu ccccgcaccc ccgcuucugu cugccccauu guggcuccuc aggcucucuc 300

cccugcucuc ccaccucuac cuccaccccc ac 332

<210> 197
<211> 284
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 197
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca ccgagagcuc gcuuucuugc uguccaauuu cuauuaaagg 180

uuccuuuguu cccuaagucc aacuacuaaa cuggggggaua uuaugaaggg ccuugagcau 240

cuggauucug ccuaauaaaa aacauuuauu uucauugcug cguc 284

<210> 198
<211> 284
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 198
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca cccaagcacg cagcaaugca gcucaaaacg cuuagccuag 180

ccacaccccc acgggaaaca gcagugauua accuuuagca auaaacgaaa guuuaacuaa 240

gcuauacuaa ccccaggguu ggucaauuuc gugccagcca cacc 284

<210> 199
<211> 375
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 199
caagcacgca gcaaugcagc ucaaaacgcu uagccuagcc acacccccac gggaaacagc 60

agugauuaac cuuuagcaau aaacgaaagu uuaacuaagc uauacuaacc ccaggguugg 120

ucaauuucgu gccagccaca cccuuugcag gaugaaacac uuccccgcuu ggcucucauu 180

cuuccacaag agagaccuuu cuccggaccu gguugcuacu gguucagcaa cucugcagaa 240

aauguccucc ccuguggcug ccucagcuca ugccuuuggc cugaaguccc agcauugaug 300

gcagccccuc aucuuccaag uuuugugcuc cccuuuaccu aacgcuuccu gccucccaug 360

caucuguacu ccucc 375

<210> 200
<211> 376
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 200
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc uccugcccgu 240

ccucaccaag acugacugcc ugcugcuuug cuacugcccg ggcccaugag acugacuucc 300

cacugcucug ccugccucuc cccacugcac uggcacagcc ccgccuugcc gcugcugauc 360

cauugccggu gugacc 376

<210> 201
<211> 382
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 201
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc uccuuccagc 240

cagacacccg ccccccggcc cuggcuaaga aguugcuucc uguugccagc augaccuacc 300

cucgccucuu ugaugccauc cgcugccacc uccuuuugcu ccuggacccu uuagccucuc 360

ugcccuucca cucucugacc cc 382

<210> 202
<211> 388
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 202
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc uccgccuugg 240

cuccuccagg aaggcucagg agcccuaccu cccugccauu auagcugcuc cccgccagaa 300

gccugugcca acucucugca uucccugauc uccaucccug uggcugucac ccuuggucac 360

cuccgugcug ucacugccau cucccccc 388

<210> 203
<211> 369
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 203
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ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc ucccugguac 240

ugcaugcacg caaugcuagc ugccccuuuc ccguccuggg uaccccgagu cucccccgac 300

cucggguccc agguaugcuc ccaccuccac cugccccacu caccaccucu gcuaguucca 360

gacaccucc 369

<210> 204
<211> 423
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 204
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc ucccugacag 240

cgugggcaac gccugccgcc ugcucugagg cccgauccag ugggcaggcc aaggccugcu 300

gggccccccgc ggacccaggu gcucuggguc acggucccug uccccgcacc cccgcuucug 360

ucugccccau uguggcuccu caggcucucu ccccugcucu cccaccucua ccuccacccc 420

cac 423

<210> 205
<211> 375
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 205
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc uccgagagcu 240

cgcuuucuug cuguccaauu ucuauuaaag guuccuuugu ucccuaaguc caacuacuaa 300

acugggggau auuaugaagg gccuugagca ucuggauucu gccuaauaaa aaacauuuau 360

uuucauugcu gcguc 375

<210> 206
<211> 375
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 206
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc ucccaagcac 240

gcagcaaugc agcucaaaac gcuuagccua gccacacccc cacgggaaac agcagugauu 300

aaccuuuagc aauaaacgaa aguuuaacua agcuauacua accccagggu uggucaauuu 360

cgugccagcc acacc 375

<210> 207
<211> 466
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 207
cuuugcagga ugaaacacuu ccccgcuugg cucucauucu uccacaagag agaccuuucu 60

ccggaccugg uugcuacugg uucagcaacu cugcagaaaa uguccucccc uguggcugcc 120

ucagcucaug ccuuuggccu gaagucccag cauugauggc agccccucau cuuccaaguu 180

uugugcuccc cuuuaccuaa cgcuuccugc cucccaugca ucuguacucc ucccuuugca 240

ggaugaaaca cuuccccgcu uggcucucau ucuuccacaa gagagaccuu ucuccggacc 300

ugguugcuac ugguucagca acucugcaga aaauguccuc cccuguggcu gccucagcuc 360

augccuuugg ccugaagucc cagcauugau ggcagccccu caucuuccaa guuuugugcu 420

ccccuuuacc uaacgcuucc ugccucccau gcaucuguac uccucc 466

<210> 208
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 208
cugguacugc auggacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucac 60

ccccgaccuc gggucccagg uaucguccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc auagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaauc gaauguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 209
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 209
cucguacugc auggacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucac 60

caccgaccuc ggguccccagg uaucguccca ccuccacgug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc auagccacac 180

ccccacggga aacaguagug auuaaccuuu agcaauaauc gaaugucuaa cuaagcuaua 240

cuaaccccag gguugaucaa uuacgugcca gccacacc 278

<210> 210
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 210
cucguacugc auggacgcaa ugcuagcugc cccuuucccg uccuggguac cccgagucac 60

caccgaccuc ggguccccagg uaucguccca ccuccacgug ccccacucac caccuuugcu 120

aguuccagac accucccaug cacgcagcaa ugcagaucaa aacgcuuagc auagccacac 180

ccccacggga aacaguagug auuaaccuuu agcaauaauc gaaugucuaa cuaagcuaua 240

cuaaccccag gguugaucaa uuacgugcca gccacacc 278

<210> 211
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 211
gucguacugc auggacgcaa ugcuagcagc accuuucccg uccuggguac cccgagucac 60

caccgaccuc ggguccccagg uaucguccca ccuccacgug ccccacccac caccuuugcu 120

aguuccagag accucccaug cacgcagcaa ugcagaucaa aacgcuuagc auagccacac 180

cgccacggga aacaguagug aucaaccuuu agcuauaauc gaaugucuaa cuaagcuauu 240

cuaaccacag gguugaucaa uuacgugcca gccagacc 278

<210> 212
<211> 278

<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 212
cugguacugc augcacgcaa ugcuagcugc cccaaagggc uccuggguac cccgagucuc 60

ccccgaccuc ggguccccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 213
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 213
cugguacugc augcacgcaa ugcuagcugc cccuuucccg ugguccguac cccgagucuc 60

ccccgaccuc ggguccccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 214
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 214
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uggaccguac ggcgagucuc 60

ccccgaccuc ggguccccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 215
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 215
cugguacugc augcacgcaa ugcuagcugc cccuuugccg uggaccguac gggcugucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 216
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 216
cugguacugc augcacgcaa ugcuagcugc cccuuugggc uggaccguac gggcugucuc 60

ccccgaccuc gggucccagg uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 217
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 217
cugguacugc augcacgcaa ugcuagcugc cccuuucccg ugguccguac cccgagucuc 60

ccccgaccuc gggucggacc uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 218
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 218
cugguacugc augcacgcaa ugcuagcugc cccuuucccg uggaccguac ggcgagucuc 60

ccccgaccuc gccucggucc uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggga aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 219
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 219
cugguacugc augcacgcaa ugcuagcugc cccuuugccg uggaccguac gggcugucuc 60

ccccgaccag cccucggucc uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccacggca aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 220
<211> 278
<212> RNA
<213> Artificial Sequence

<220>
<223> Combination of 3'-UTR sequence elements

<400> 220
cugguacugc augcacgcaa ugcuagcugc cccuuugggc uggaccguac gggcugucuc 60

ccccgaccag cccucggucc uaugcuccca ccuccaccug ccccacucac caccucugcu 120

aguuccagac accucccaag cacgcagcaa ugcagcucaa aacgcuuagc cuagccacac 180

ccccagccca aacagcagug auuaaccuuu agcaauaaac gaaaguuuaa cuaagcuaua 240

cuaaccccag gguuggucaa uuucgugcca gccacacc 278

<210> 221
<211> 142
<212> RNA
<213> Artificial Sequence

<220>
<223> 3'-UTR sequence element

<400> 221
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cuacuaaacu gggggauauu augaagggcc uugagcaucu ggauucugcc uaauaaaaaa 120

cauuuauuuu cauugcugcg uc 142