

SEQUENCE LISTING

<110> HKG epitherapeutics

<120> DNA methylation biomarkers for early detection of cervical cancer

<130> TPC53811

<150> US 62/774,994

<151> 2018-12-04

<160> 91

<170> PatentIn version 3.5

<210> 1

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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cgcgctgccc cgcactctga gggccttcat tagctcgctc cccgcgccga ggctggggcg 120

gg 122

<210> 2

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 2

cctcccgtag ctcatctgag ccccgaggaa atcaccgggg gagggctcgg gaggcgggcg 60

cggcagcccc ataatttcca gggcccttct cctacactga cacgtaattg tcagattgtt 120

tt 122

<210> 3

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 3

ccgccgcggg ttcccagggc tggtagtagt tgccgtcca cacgtacgtg gcggggtcct 60

cgtcagcgaa gacctcgcg aacatgtcga ccatgtagag gtcctcggcg cggttgccat 120

cc 122

<210> 4

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 4

ggggaggaat attagactcg gaggagtctg cgcgcttttc tcctccccgc gcctcccggt 60

cgccgcgggt tcaccgctca gtccccgcgc tcgctccgca cccacccac ttcctgtgct 120

cg 122

<210> 5

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 5

caggccggtc ccagccgccc ggagccccag tgcgcgatgg cggccggcaa actgcgctg 60

cgcactgggc ctcaccgcgg actacgactc ccacaatgcc gcgaggctgt gccgcgcacc 120

gg 122

<210> 6

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 6

gtgacgcgcg gccgcagctg cccgcgggcg gagcgctctc agaccccgga gcgcacaccg 60

cggggccatc ggtgccatcg cggatctcca ggctcctcat cagtccgccg gggccgcagc 120

ag 122

<210> 7

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 7

gaggaatatt agactcggag gagtctgcgc gcttttctcc tccccgcgcc tcccggtcgc 60

cgcggggttca ccgctcagtc cccgcgctcg ctccgcaccc caccacttc ctgtgctcgc 120

cc 122

<210> 8

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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atctaccgtc tccaatctcc atctccgaag ttatgcccac ttcctcgaag tttggagcca 60

cgcgaaactac actgcccaga aggcgccgcg ccgtgagccg cgatgcttgg ccaatgaaaa 120

ga 122

<210> 9

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

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 cgggtggggca gggggcgggg cctgggagag gccggggggcg gaatgggctg agtgccctgt 120
 ct 122

<210> 10
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 10
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 cgccgccccg gctctagctg ctcaggcgac cgccaccctc gcctcgccgc cgcccggtgca 120
 ca 122

<210> 11
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 <212> DNA
 <213> Artificial Sequence

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

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 cgtgcgccgc gcgcgcaccc agtccagcgc ggagtgggag tctacccgag gaggggtgtc 120
 tg 122

<210> 12
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 12

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cgcccgcatc ctccagtttc ttgtctgggt tatgtctctt agtttgtatt ccccgttggt	120
tc	122

<210> 13
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 <212> DNA
 <213> Artificial Sequence

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

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cggtgacttt cactccacgc gatccgcttc ccggtttacg ctaaactggg cgctcggggac	120
ag	122

<210> 14
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

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cgtgcgtgcg ccgcgcgcgc acccagtcca gcgcggagtg ggcgctctacc cgaggagggg	120
tg	122

<210> 15
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

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ccccgcgg ccgcggccg cgctccccgc cttcattctg tgatctgcgg atttgccagt	60

cgccaacctc cgcgcccaga gtcaccatcg cgcaggggtg ggcaaaccat ggagctcggg 120
gc 122

<210> 16
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 16
aactcctgca caaatcatTTT caaacgcggt cggcttctaa tcgggaagta atctcagtga 60
cgctggcgggt gcagagaacc gagtctggac gcacacacac aaacacaccg cgggcctccg 120
ca 122

<210> 17
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 17
gtgtgctcag cctcagcgtg aggggcacct gctcgtctgg gctcacagcg aaggcagcct 60
cgccgcgagc tgccgctgcc gctgctgccg ccactgggtgt tgccgctctc aggcgccagg 120
ct 122

<210> 18
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 18
gccgggagcc tgacgtcacc acgccctgcc tgtcaatctg cagcgcgcgc cgctcgcagc 60
gcctttttct gccaccaact gtatctctca ctcgcggagc cggcacagcg acaggcgccc 120

cg 122

<210> 19
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 19
gcggcgggcgg gcggggagcc aggcccgagc tgcgttctgc gcagccattg gtgggcgccg 60
cgctctgcac tgagcatgtt cgcgccccgc cggcccctag ccgcagccgc agccgcagcg 120
ac 122

<210> 20
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 20
caaccggttc cgccgcgttt gtgggctggt agcccggaat acatttccca gaggccttcg 60
cggccgacgt gcttcgcgca ggaacgcagc cgcctcccga ctggaggacg cggtacgga 120
gc 122

<210> 21
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 21
gctgcccgtg gtcaaactgg agtcgctgaa gcgctggaac gaagagcggg gcctctggtg 60
cgagaagggg gtgcaggtgc tgctgacgac ggtgggcgcc ttcgccgcct tcggcctcat 120
ga 122

<210> 22
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 22
cttcccgggt ccccgcggtg cgcacccgct ggccactctg cgcacgcgcg ccgggtgccc 60
cggcctaagg ccgttgacct cgggttctcc ccggcacagt cgaatccacg ccagggccct 120
ca 122

<210> 23
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 23
gcgggggagg ttgcggggga ggctcggcgt ccccgctctc cgccccgcga caccgactgc 60
cgccgtggcc gccctcaaag ctcatggttg tgccgccgcc gccctcctgc cggcccggct 120
gg 122

<210> 24
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 24
tgtactactt cctctgccac ctggccttgg tagacgcggg cttcactact agcgtggtgc 60
cgccgctgct ggccaacctg cgcggaccag cgctctggct gccgcgcagc cactgcacgg 120
cc 122

<210> 25

<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 25
aaaaaaaaaa aaaagcaatg agccgcaagc cttggactcg cagagctgcc ggtgcccgtc 60
cgagagcccc accagcgcgg ctacgcctc agtctcgccg cccaagggtg ggatccgacg 120
cc 122

<210> 26
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 26
cgagagggcc cgggccagca gcctctgggg cccagtgcgc agggcactgc gggccgattg 60
cgccccgggg ccaggaggcg ccgagaaagc aaaagcaaaa gccggcggcg ggtggaggtc 120
aa 122

<210> 27
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 27
cggccgcagt gtgccgcccc ctgcgctatg cggggctcgt ctccccgcgc ctatgtcgca 60
cgctggccag cgcctcctgg ctaagcggcc tcaccaactc ggttgcgcaa accgcgctcc 120
tg 122

<210> 28
<211> 122
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 28

cctggcgcga ccgccagcag caccagcgc ggggccggga gctgctgggg gccaggctc 60

cgctctcccc accgctctgc accgctgccg gctgcggaca gaccgatgc gccaccacca 120

cc 122

<210> 29

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 29

ccggagcgcg ctgctgccct ctaccggtca tccgtgcggc cggacaccgt gtcaggcccg 60

cgaggagggc tctgccgcag tcccggggaa cagcaccag cagcgccact gggagaggaa 120

ac 122

<210> 30

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 30

agtccagagc ggcgctgtgc agctggaagg gcgcgcgata gctcaagtta gaggcggccc 60

cggggcgcgg cgcaggacac aagacctcaa actggtactt gcacaggtag ccgttggcgc 120

gc 122

<210> 31

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 31

ggcgggtgcga gctccccgcc tgcggggacgc acggagaccg cggtcagcgc gccgcctggc 60

cggcccagcg cgcccagccc gcgcccagcc ccgtccactc ccgtccagcc ccgccgcccg 120

gc 122

<210> 32

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 32

cggtagagtt tccaacacga aagcccgtgt ggtcgcgccg ggagctcacg gcgttccaag 60

cggcacttat cccgcgttga tgcccaggca ccccgcgcg cctgtttcac caggcccagt 120

ca 122

<210> 33

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 33

ccagcggcag tagctgtagc agcttcagcg aagccggaga tgggcagaga gcgcgcgcgg 60

cgcagcagct ccagattcac tgctctcccc tgcagctccc cgcgcccccg ccgctgtcgc 120

tg 122

<210> 34

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 34
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 cgagcgctcg gggcacttct atccccgcct ctcaaagggt ggggacagcc gtttccagat 120
 tt 122

<210> 35
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 35
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 cgcagccgga agatggcgca gacgcacaaa gcacaccgat gctgcgcat gatagggccg 120
 gc 122

<210> 36
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 36
 tctcgcggcg caggcggcgg cggcagaggt ggggtcgcgc agcggaggca gctcgagctt 60
 cgggatgcgc gctcgcttct tgggctcctc gctcgatctt actgccccct tttttctctc 120
 cc 122

<210> 37
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 37

tcctccagcc agagtcggtg ggactggctg cgctgccctg aagtggttct ccaagcagcg	60
cggaggggtgg cggacggcgg acggagccca ggggccgcgt cgggtgggga aaccggaact	120
cg	122

<210> 38
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 38	
tgcgcatcgc tggctctggg ttccgccgaa tgcgtcctcc tggcggatgat ggctctggac	60
cgcgcgggccg cagtgtgccg cccgctgcgc tatgcggggc tcgtctcccc gcgcctatgt	120
cg	122

<210> 39
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 39	
aggggagctg cgaggcgaag tggtcttcag ggaagcgggc tcgagtctcc gcagctgcgg	60
cggcggcggc ggcgcgctgg gccggcggcg ggcgcgggca gggggccggg ggtgccgcgc	120
gg	122

<210> 40
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

<400> 40	
cctccacccc cgggggggttc ctgcgcactg aaagaccgtt ctccggcagg ttttgggatc	60

cggcgacggc tgaccgcgcg ccgccccac gcccggttcc acgatgctgc aatacagaaa 120
gt 122

<210> 41
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 41
agagaggggt cccagaacga aggtggcggc acgagctctg cgctggcggc tgtggggggc 60
cggcgctcag gaccccaact ccatccaagt tgcgccgcgg tgggggcggg cggaggcggc 120
gc 122

<210> 42
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 42
aatctcccct cgggctcgac ggatgtgcgc cccagatgtg ctgacacatg tccgatgcct 60
cgctgccttg gaggtctccc cgctcgcgtg tctcttctct tcgcaccagc ggcggaacc 120
gc 122

<210> 43
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 43
gctccgcttc tccgggtttt agcggaagcc tgcggggggc ggggtaaccg cggaagccgg 60
cggccgtggg cgcgcgggtt gggggctctc gcgccgctcc gggctctccc cccccccggc 120

tg 122

<210> 44
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 44
cgcgctccgc ttctccgggt tttagcggaa gcctgcgggg ggcggggtaa ccgcggaagc 60
cggcggccgt gggcgcgcggt gttgggggct ctcgcgccgc tccgggctct cccccccccc 120
gg 122

<210> 45
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 45
gcgagggatc tctgtgcgtc ctactggcc catgcacca gcacctgcga ctcccgccgt 60
cgggctgcgt ggccccgcgc ccacacctgc ccgtcccttc cgtcgtccct cgctcgcgca 120
ga 122

<210> 46
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 46
ggggagggtgt ggggagcgga aggccgcagg agcatctttg cggagaaaagt actttggctg 60
cggcgggcgc agggcgggccc ggctagcccc gcgccccacc tgttctgtgc gtcgcgctcg 120
cc 122

<210> 47
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 47
tagggctgga aacccgccgc cacagcgggc tagaggctgt ccccgccgc aacatatgcg 60
cgaaggaaag tgctacgaac gtcaaattggc cgccccccgc cgacgccatc tgctctgcga 120
ag 122

<210> 48
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 48
cgcccgaac atatgcgcga aggaaagtgc tacgaacgtc aaatggccgc ccccgccga 60
cgccatctgc tctgcgaagc agaaacggcg gcagctgcgc gccagtccc tccgcccgcg 120
cc 122

<210> 49
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 49
ccccctgttc aaggtctgtc accgtagggg gcgggggggc gcgtggagcc gctgggggtt 60
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gg 122

<210> 50

<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 50
gctgtggccg cagctgaggc ccgacgagct tccggccggg tctttgccct tcaactggccg 60
cgtgaacatc acggtgcgct gcacgggtggc cacctctcga ctgctgctgc atagcctctt 120
cc 122

<210> 51
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 51
gtgtgcgtgt gcgtgtgctc agcctcagcg tgagggggcac ctgctcgtct gggctcacag 60
cgaaggcagc ctcgccgcga gctgccgctg ccgctgctgc cgccactggg gttgccgctc 120
tc 122

<210> 52
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 52
tggggcagcg gcgttgagg agatgagctc agcgcaaagg gaaccccgca gcggcgagtg 60
cggctgctgg cctgcgcgct gtggcccca caggctggca gggcgcgggc ggggtggcggg 120
gt 122

<210> 53
<211> 122
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 53

agagtcggtg ggactggctg cgctgccctg aagtggttct ccaagcagcg cggaggggtgg 60

cggacggcgg acggagccca ggggccgct cgggtgggga aaccggaact cgcggagggg 120

aa 122

<210> 54

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 54

aaagccctgg caggtaaaga gaggacccgc gcaggctggg agctcccact cctcctccag 60

cgtcacgctc gccctccgcc gctgcctcgc gtccgggtct gtttatatag cgtctggagg 120

cc 122

<210> 55

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 55

ctggccaagt gccggcccat cgcggtgcgc agcggagacg cttccacga gatccggccg 60

cgcgccgagg tggccaacct cagcgcgcac agcgccagcc ccatccagga tgcggtcctg 120

aa 122

<210> 56

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 56

ggcgccggca gcttcgcgcc ggcggttgga agcgggcggg ctgcacgggc ggctcgagtg 60

cggggacccc agcccctcgc cctcgtgagc gccgcccctg ccacctgctg ccaagtcacc 120

gg 122

<210> 57

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 57

ccccggccgc gccgggcgcg gggctcggga ttcgggagac cgcgcggcgc cgaagccacg 60

cgtcagcccc actgtccgcg gcgcctcgcc ccaggcctcg ggctcttcct ccgcacctcg 120

ta 122

<210> 58

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 58

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cgggccagtc cccgggatct gctgccgccc ctctccgaaa ttcacagcca gagcgggcgc 120

ac 122

<210> 59

<211> 122

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 59
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cgcatcgagt gtgccaggcg tgtgcgtggt ttctgctgtg tcattgcttt cacggaaggt 120
gg 122

<210> 60
<211> 122
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 60
gcgcccagac tgcgcgccgc gccgctgcgc ccaacattcc cgaggacggc ttcgcgggcg 60
cgtatcgtcc agaccggagc accgccccac cgctagcgca ggagacctgc cggggaagtc 120
gc 122

<210> 61
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 61
aaaggccgta ctctgcccc cgcgggaccc aggtccccgc ctgctgcaga gcgcactctg 60
cgcacgtcga gccgcgaaag gttcacagaa gaaaacaaga gaaagaagta gcaggcactg 120
ag 122

<210> 62
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<212> DNA
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<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 62

ggaatccatt cttttaagcc agggtttaaa actcttcaag caagtcatt gcaaaggtag 60
cgcttctacc attttaaga taggattatg ttccctagga caactggatg agccctagga 120
ac 122

<210> 63
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 63
gaggagcgcg ccgctgcctc tggcgggctt tcggcttgag gggcaaggtag aagagcgac 60
cggccgtggg gtttaccgag ctggatttgt atgttgacc atgccttctt ggatcggggc 120
tg 122

<210> 64
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 64
ccctgtgcgt gccgccgcg tggtgctcgc agtgtgctgg cgccgagctc ggtggacacg 60
cgcgagctca gagctgcctc tcgccctcgc tagctgggct cgcagcctct tcctccctcc 120
ct 122

<210> 65
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 65
ctctttggca agtggtttgt gcatcaggag aaactttcca cctgcgagcc gaaccggcgc 60

cgagtgcgtg tgtttctgcc tttttttgtt gtcgttgccct ccacccctcc ccattcttct 120
ct 122

<210> 66
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 66
tggctgccag agcgagtgag gggcgcagag gcggcagaga gcggagagcc ccggtgtctc 60
cgcgagggcg gcggcggcca gcagacggcg atcgaggcgc gcgccacggc acggccagcg 120
ca 122

<210> 67
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 67
aagcgcgtgg agagccgaaa ggtgcggtgg gcgcagaggg cgggctggct gcggggcgac 60
cgcgcgccgg ggccatgccg cgctccttcc tgggtggactc gctagtgtg cgcgaggcgg 120
gc 122

<210> 68
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 68
ggggctcgcca tgaccgagtg gcccaggccc gagcgaagcc cgcgcgcggt gagtccgccg 60
cgggcccatcc gtccctccgc ccgccagagc gtccatcggg acgcccaccc gggagggtct 120

cg 122

<210> 69

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 69

ccgagcgctg ccccgccgg cccgcggctg ccagccggcc ctgcccgcgc ccgggccccg 60

cgagcggccg cacttcacct tacggagggg agataatgag atcaattaga ggcgccgtca 120

cc 122

<210> 70

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 70

ggcaaccctg actcggaccg ctgaggagag cccagggaga ggccagcgcc gcgcagcagc 60

cgccccgctg cgcccacctc cccggctgct cccggagggc tcacaaaggc ggtggccgcc 120

cg 122

<210> 71

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 71

gcgggcggca gccgcaagcg aggaatccag cgcagggaaa gtagccccag tggggccccg 60

cgcgtcagcc ccactcgcgt ggcaaaactt gcggggggccc ccgcgtgccg cgcctcagcc 120

ca 122

<210> 72
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

 <400> 72
 tcctcgcggt cggggtcctc ctctctgcc gacgagttgt cactgggcga ggcgtagctg 60
 cgctctacgc cgcggagggg cggcctcttg gaggcgggga ccgggtactc ccgctgcagc 120
 cc 122

<210> 73
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

 <400> 73
 gctgctcgcg ctccgccgcc cgggagatgc ttctcgcgc ggcgcagcgc tgaggccgtg 60
 cgtgcgcccc ggctgcgctg cgcgctcccc acatacaca gctctccatg tgagctgaca 120
 gg 122

<210> 74
 <211> 122
 <212> DNA
 <213> Artificial Sequence

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

 <400> 74
 cttctcttga aaaggaggag aatcaacact gggctcaca ctcatcagag ctgagtcata 60
 cgtacatcag caggacctac gtgggaacca aatagcaaac tcaaattggg aaatttgagg 120
 aa 122

<210> 75

<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 75
ccgagagccc cgcctgcagg cggtagat acatgtagat actgtagata ctgtagatac 60
cgccccggcg ccgacttgat aaacgggttc gcctcttttg gaagccgcct gcgtgtccat 120
tt 122

<210> 76
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 76
tgaggagtga ggaggcagaa aggaccgaga acaaggggac ccggttccat ttctggaccc 60
cgtccgcagg ctgctcgccc gacttggggc cgctctgccc cggacgatca ggacagctgc 120
gt 122

<210> 77
<211> 122
<212> DNA
<213> Artificial Sequence

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

<400> 77
caaattctata tgaaggatcg aattgcattg aactagcaaa cacacacaca cacacgcaca 60
cgcaaaaact gatgaaagct gaacaaggct tgtagtctag tcaacagtac tgcactatgt 120
ga 122

<210> 78
<211> 122
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 78

acagtctctc gcctcaaaga tctccgccat tagtggtagc catttaagaa aacagaatta 60

cgatgaataa tgatttgaag ccaaaaagtc aaaatatctt atttcgcaac tgtaattgct 120

gg 122

<210> 79

<211> 122

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 79

ccacacaggc ctctccctcg gtgcggtagc gagggttgcg ggcccaaacg cccgcgcca 60

cggaggcgcc tgcgacgact agaagcttcc acagccatat gggggcaaag acggcccagt 120

ag 122

<210> 80

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 80

ggtttttggg taggaaggat agtag 25

<210> 81

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 81

aaacaaatct aaccctaaa aaaac 25

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

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

<400> 82
caaactaaac acactaaacc 20

<210> 83
<211> 21
<212> DNA
<213> Artificial Sequence

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

<400> 83
gggttttttag ggttggtggt a 21

<210> 84
<211> 24
<212> DNA
<213> Artificial Sequence

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

<400> 84
tcctcataat aataaataac aacc 24

<210> 85
<211> 18
<212> DNA
<213> Artificial Sequence

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

<400> 85
tatgtatgtg gtgggggtt 18

<210> 86
 <211> 45
 <212> DNA
 <213> Artificial Sequence

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

 <400> 86
 aatgatacgg cgaccaccga gatctacact ctttcctac acgac 45

 <210> 87
 <211> 52
 <212> DNA
 <213> Artificial Sequence

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

 <220>
 <221> AGTCATCG
 <222> (25)..(32)

 <400> 87
 caagcagaag acggcatacg agatagtcac cggcgactgg agttcagacg tg 52

 <210> 88
 <211> 59
 <212> DNA
 <213> Artificial Sequence

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

 <220>
 <221> misc_feature
 <222> (34)..(38)
 <223> n is a, c, g, or t

 <400> 88
 acactctttc cctacacgac gctcttccga tctnnnnngg gtttttaggg ttggtgga 59

 <210> 89
 <211> 58

<212> DNA
 <213> Artificial Sequence

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

 <400> 89
 gtgactggag ttcagacgtg tgctcttccg atcttcctca taataataaa taacaacc 58

<210> 90
 <211> 67
 <212> DNA
 <213> Artificial Sequence

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

<220>
 <221> misc_feature
 <222> (34)..(38)
 <223> n is a, c, g, or t

 <400> 90
 acactctttc cctacacgac gctcttccga tctnnnnngg taggtttttg ggtaggaagg 60

 atagtag 67

<210> 91
 <211> 59
 <212> DNA
 <213> Artificial Sequence

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

 <400> 91
 gtgactggag ttcagacgtg tgctcttccg atctaaacaa atctaaccac taaaaaac 59