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<151> 2020-06-25

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agccagtaca atgtgtaa	1698

<210> 9
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 9	
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tgtgtgtgta agctgcctta tcagtgtcca aagaatggaa cagctgtgtg tgccacaaac	180
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ttcatctgta agagcagctg gagcatgagg gaagccaatg tggcctgtct ggacctggga	420
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gctgattctc caatggatga cttctttcag tgtgtgaatg gaaagtacat ctctcagatg	660
aaggcctgtg atggaatcaa tgattgtgga gaccagtcag atgaactgtg ctgcaaggcc	720
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tacaccaagg tggccaatta ttttgactgg atcagctacc atgtgggaag gcctttcatc	1680
tctcagtaca atgtgtaa	1698

<210> 10
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 10	
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tgtgtctgta aactgcccta ccagtgccct aagaatggaa cagctgtctg tgctactaat	180
agaaggtcat tcccaactta ctgccagcag aagtctctgg agtgtctcca ccctggaact	240
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gcagactccc ccatggatga ctttttccaa tgtgttaatg ggaaatatat tagtcagatg	660
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tgtcagggaa agggtttcca ctgcaaaagt ggggtttgta ttccttctca ataccaatgc	780
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agccagtaca atgtctga	1698

<210> 11
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 11

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tgtgtgtgca agctgccata ccagtgtccc aaaaatggga cagcagtctg tgcaactaat	180
agaagatcct tccctacata ctgccagcag aagagtcttg agtgcctgca cccaggcaca	240
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ggaaacacag atagtgaggg aattgtggaa gttaagctgg tggaccagga taaaaccatg	360
ttcatttgta aatcttcacg gagtatgaga gaagctaatt tggcatgtct ggaccttgga	420
tttcaacaag gagcagatac ccagagaagg tttaagctga gtgatctctc cattaactct	480
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gctgactccc ccatggatga cttctttcaa tgttgtaatg ggaaatacat ctcccagatg	660
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tgtcagggga agggatttca ctgcaaaagt ggggtttgca tccccagtca gtaccagtgc	780
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tatgtctggg gagtgggtgc atggggagaa aattgtggca aacctgagtt tcctggagtg	1620
tatacaaagg tggctaacta ttttgattgg atcagttatc atgttggttag acccttcac	1680
agtcagtaca atgtctag	1698

<210> 12
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 12	
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tgtgtctgta agctgcctta ccagtgtcct aagaatggga ctgcagtctg tgccactaat	180
agaagatcat tcccaacata ctgccagcag aagagtctgg agtgtctgca tcctggcaca	240
aagtttctca acaatgggac atgtacagct gaaggaaaat tctctgtgag cctgaaacat	300
ggcaatacag atagtgaggg aattgttgag gttaagctgg tggatcagga caaaacaatg	360
tttatctgca aaagcagctg gtccatgaga gaggctaatt tggcctgtct tgaccttggc	420
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gcagacagcc ccatggatga cttctttcag tgtgtgaatg gaaagtatat tagccagatg	660
aaggcatgtg atggtatcaa tgattgtggg gaccagagtg atgagctctg ttgtaaggct	720
tgtcaaggca aaggcttcca ctgcaagtca ggggtgtgca tcccctcca ataccagtgc	780
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tatacaaaaag tggccaacta ctttgactgg atttcatacc atgtggggag accttttatc	1680
agccagtaca atgtctga	1698

<210> 13
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 13	
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agaagatctt ttcctacata ctgtcagcag aagagtctgg agtgcctcca ccctggcaca	240
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ggcaatactg attcagaggg tattgttgaa gtcaaactgg tggatcagga taaaaccatg	360
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tatacaaaaag tggcaaatta ctttgactgg atctcctatc atgtggggag accctttatc	1680
tctcagtaca atgtttga	1698

<210> 14
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 14	
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agtcagtaca atgtctag	1698

<210> 15

<211> 1698

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 15

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tgtgtgtgca aactcccata ccagtgtcct aagaatggta cagctgtctg tgcaacaaac	180
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agaattgtgg gaggcaagag agctcagctt ggggacctcc catggcaagt ggctattaag	1020
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gatgcctgca agggagatag tgggtggccc ctggtgtgca tggatgctaa taatgtgacc	1560
tatgtctggg gagtggtttc atggggagag aattgtggaa agcctgagtt ccctggagtg	1620
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tcccagtaca atgtctaa	1698

<210> 16
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 16	
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gatgcaagtg gcattacctg tggaggaatt tacattggag ggtgttggat tctgacagca	1080

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gatgcctgca aggggtgacag tgggtggcca cttgtgtgca tggatgctaa caatgtgacc	1560
tatgtttggg gtgtggtgtc atgggggggaa aactgtggca aacctgagtt tcctggtgtt	1620
tacactaagg ttgcaaacta ctttgactgg atcagctatc atgtgggcag accttttatt	1680
tcccagtata atgtctaa	1698

<210> 17
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 17	
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tgtgtgtgta aactccccta ccagtgccct aagaatggca ctgcagtgtg tgctacaaac	180
agaagatcat tcccaaccta ttgccagcag aaatcactgg aatgcctgca tcctggtaca	240
aaattcctga acaatgggac ttgtactgct gaggggaaat tcagtgtgtc cctgaaacat	300
gggaacacag attctgaggg tattgttgag gtgaagctgg tggatcagga taagactatg	360
tttatctgca agtcaagctg gtccatgagg gaagccaatg tggcatgcct ggatctgggt	420
tttcaacaag gagctgatac ccagagaaga tttaagctga gtgacctcag cattaactct	480
actgagtgtc tgcatgtgca ctgtagaggg cttgaaacaa gcctggcaga gtgcaccttc	540
accaagagaa ggacaatggg ataccaggac tttgctgatg tggctctgcta caccagaag	600
gctgattccc ccatggatga tttctttcaa tgtgtgaatg ggaagtacat cagccagatg	660

aaagcatgtg atgggatcaa tgactgtgga gaccagagtg atgagctgtg ctgcaaagct	720
tgccagggga aaggctttca ttgcaagagt ggggtctgta ttccctccca ataccagtgc	780
aatggggagg tggattgcat cacaggagaa gatgaagtgg gctgtgctgg atttgcctca	840
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agtcagtata atgtgtag	1698

<210> 18
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 18	
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tgtgtgtgca aactccctta tcagtgtccc aagaatggga ctgcagtctg tgcaaccaac	180
agaagaagct ttccacata ctgtcagcag aaatcccttg agtgcctgca ccctggaacc	240

aaattcctga ataatggaac ttgcacagca gaggggaaat tcagtgtcag cctgaaacat	300
ggcaacactg atagtgaggg gattgttgaa gtgaagctgg tggatcagga taagactatg	360
tttatctgca aaagttcatg gagcatgaga gaagcaaattg tggcatgcct tgatctgggt	420
ttccaacaag gagctgacac tcagagaaga tttaaactca gtgatctgtc aatcaacagc	480
acagagtgcc tgcattgtgca ctgtagagga cttgagacat cacttgacaga atgcacattt	540
acaaaaagaa gaacctgggg ataccaggat tttgcagatg tgggtgtgcta tactcagaaa	600
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aaggcctgtg atggaatcaa tgactgtgga gatcagagtg atgaactctg ttgtaaggca	720
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aatggagagg tggattgtat tactggggag gatgaagtgg gttgtgcagg atttgccagt	840
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agaattgtgg gagggaaaag agctcagctg ggagacctcc cttggcaagt ggcaatcaag	1020
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gagaattaca atgctggcac ttaccagaat gacattgccc tgattgaaat gaagaaggat	1260
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gatgcttgta aaggggattc aggaggtcct cttgtctgca tggatgctaa caatgtgaca	1560
tatgtgtggg gagtagtcag ttggggagaa aactgtggaa aaccagaatt tcctggggtg	1620
tatactaaag tggcaaatta ttttgactgg atcagctatc atgtgggtag acccttcatt	1680
agtcagtata atgtgtga	1698

<210> 19
 <211> 1698
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 19

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tgtgtctgca agctccctta tcagtgtccc aaaaatggca cagcagtttg tgccacaaat	180
agaaggtctt ttcctacata ctgccagcag aagagccttg aatgtctcca cccaggcaca	240
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ggaaacactg atagtgaggg cattgtggag gttaagcttg tggatcagga taaaacaatg	360
ttcatctgca agagctcatg gtccatgaga gaggctaata tggcttgtct ggacctgggt	420
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gctgactccc ccatggatga tttctttcaa tgtgttaatg ggaaatacat tagccagatg	660
aaggcttgtg atggtatcaa tgactgtgga gaccagtctg atgaactgtg ctgtaaagcc	720
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tatgtctggg ggggtggtag ctggggagaa aattgtggga agcctgagtt ccctgggggtg	1620
tacaccaagg ttgcaaaacta ttttgattgg atttcttattc atgtgggtag accattttatc	1680
agtcagtata atgtgtag	1698

<210> 20
 <211> 1698
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 20	
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tgtgtgtgca aactgccata tcagtgccca aaaaatggaa ctgctgtgtg tgctactaac	180
aggagaagct tcccaactta ttgccagcag aaaagtctgg aatgccttca tccaggaact	240
aaattttctga ataatggaac ttgcactgct gaaggaaaat ttagtgtgtc cctgaaacat	300
ggaaatactg attcagaggg aattgtggaa gtgaaacttg tggatcagga taaaactatg	360
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aaatcactgc tgcctaaact gtcttggtgga gtgaaaaaca gaatgcacat tagaaggaaa	960
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tatactaaag tggctaatta ttttgattgg attagctatc atgtgggaag gccttttatt	1680
tctcagtata atgtgtaa	1698

<210> 21
 <211> 1752
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 21	
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acctatacat ctcaggagga tctggtggag aagaagtgtc tggccaagaa gtacacacac	120
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tggggagtgg tgagctgggg agagaactgc ggcaagccag agtttcccgg cgtctacacc	1680
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tacaacgtgt ga	1752

<210> 22
 <211> 1752
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 22	
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ctgagctgcg acaaggtggt ctgccagcct tggcagagat gcatcgaggg cacctgtgtg	180
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tggggcgtcg tgtcctgggg agagaattgt ggcaagcctg agttccccgg cgtctacacc	1680
aaggtggcca actacttcga ctggatcagc taccacgtgg gcagaccctt tatcagccag	1740

tacaacgtgt ga

1752

<210> 23

<211> 1752

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 23

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acctatacat ctgaggagga tctggtggag aagaagtgtc tggccaagaa gtacacacac	120
ctgagttgtg acaagggtgtt ctgtcagcca tggcagagat gcattgaggg aacctgtgtg	180
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tgtaagagct cctggtctat gagagaggcc aatgtggcct gcctggatct gggctttcaa	480
caaggagctg acacacagag gagattcaag ctgagtgacc tgtctatcaa tagcacagag	540
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<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 26

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<220>
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 <212> DNA
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 <223> Synthetic construct

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

<220>
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<400> 29

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<220>
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caaggagctg aactcagag aagatttaaa ctcagtgatc tgtcaatcaa cagcacagag	540

tgctgcatg tgcactgtag aggacttgag acatcacttg cagaatgcac atttaccaaa	600
agaagaacca tgggatacca ggattttgca gatgtggtgt gctataactca gaaagctgat	660
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caggaggaaa ctgagattct gacagctgac atggatgctg agagaagaag gatcaagagc	960
ctgctcccaa agctgtcatg tgggggtcaaa aatagaatgc acatcagaag gaagagaatt	1020
gtgggaggga aaagagctca gctgggagac ctcccttggc aagtggaat caaggatgct	1080
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tataatgtgt ga	1752

<210> 39
 <211> 1752
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 39	
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ctgtcttgtg acaaagtctt ctgtcagccc tggcagagat gcattgaggg aacatgtgtc	180
tgcaagctcc cttatcagtg tccccaaaat ggcacagcag tttgtgccac aaatagaagg	240
tcttttccta catactgcca gcagaagagc cttgaatgtc tccaccagcag cacaaagttt	300
ctgaataatg ggacttgcac agcagaaggc aaatttagtg tgtccctgaa acatggaaac	360
actgatagtg agggcattgt ggaggttaag cttgtggatc aggataaaac aatgttcatc	420
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tgtctgcatg tgcattgtag aggactggaa acttctctgg ctgagtgtac ctttacaag	600
agaagaacaa tgggatacca ggattttgct gatgtggtct gctacacca gaaagctgac	660
tcccccatgg atgatttctt tcaatgtgtt aatgggaaat acattagcca gatgaaggct	720
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gaagttgatt gcattacagg ggaagatgaa gtgggttgtg cagggtttgc ttcagtaact	900
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tgtaaagggtg acagtggagg acccctggtg tgcatggatg ccaacaatgt gacatatgtc	1620
tgggggggtg ttagctgggg agaaaattgt gggaagcctg agttccctgg ggtgtacacc	1680

aaggttgcaa actattttga ttggatttct tatcatgtgg gtagaccatt tatcagtcag	1740
tataatgtgt ag	1752

<210> 40
 <211> 1752
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 40	
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ctgtcctgtg ataaagtctt ctgccagcca tggcagagat gcattgaggg aacttgtgtg	180
tgcaaaactgc catatcagtg cccaaaaaat ggaactgctg tgtgtgctac taacaggaga	240
agcttcccaa cttattgccg gcagaaaagt ctggaatgcc ttcattccagg aactaaattt	300
ctgaataatg gaacttgac tgctgaagga aaatttagtg tgtccctgaa acatggaaat	360
actgattcag aggggaattgt ggaagtgaac cttgtggatc aggataaaac tatgttcatt	420
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caaggagctg atactcagag aaggttttaa ctgtctgac tgtctattaa ttccactgaa	540
tgcctgcatg tgcatcagag aggactggag actagtctgg ctgaatgcac ttttactaaa	600
agaagaacta tgggatatac ggattttgct gatgtggtgt gctatactca gaaagctgat	660
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tgtgatggaa tcaatgattg tggagatcag agtgatgaac tgtgctgcaa agcttgccag	780
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aatagattct atgaaaaaga aatggaatgt gctggaactt atgatggatc cattgatgct	1560
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tataatgtgt aa	1752

<210> 41
 <211> 1752
 <212> DNA
 <213> Homo sapiens

<400> 41	
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tgtaaagggg actctggagg ccccttagtc tgtatggatg ccaacaatgt gacttatgtc	1620
tgggggtgtg tgagttgggg ggaaaactgt ggaaaaccag agttcccagg tgtttacacc	1680
aaagtggcca attatfffga ctggattagc taccatgtag gaaggcfff tatttctcag	1740
tacaatgtat aa	1752

<210> 42
 <211> 1698
 <212> DNA
 <213> Homo sapiens

<400> 42	
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tgtgtttgta aactaccgta tcagtgccca aagaatggca ctgcagtgtg tgcaactaac	180
aggagaagct tccaacata ctgtcaacaa aagagtttgg aatgtcttca tccagggaca	240
aagtttttaa ataacggaac atgcacagcc gaaggaaagt ttagtgtttc cttgaagcat	300
ggaaatacag attcagaggg aatagttgaa gtaaaacttg tggaccaaga taagacaatg	360
ttcatatgca aaagcagctg gagcatgagg gaagccaacg tggcctgcct tgaccttggg	420

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actaagagaa gaactatggg ttaccaggat ttcgctgatg tggtttggtta tacacagaaa	600
gcagattctc caatggatga cttcttttcag tgtgtgaatg ggaaatacat ttctcagatg	660
aaagcctgtg atggatatcaa tgatttggtga gaccaaagtg atgaactgtg ttgtaaagca	720
tgccaaggca aaggcttcca ttgcaaactg ggtgtttgca ttccaagcca gtatcaatgc	780
aatggtgagg tggactgcat tacaggggaa gatgaagttg gctgtgcagg ctttgcatct	840
gtgactcaag aagaaacaga aattttgact gctgacatgg atgcagaaag aagacggata	900
aatcattat tacctaaact atcttggtga gttaaaaaca gaatgcacat tcgaaggaaa	960
cgaattgtgg gaggaagcg agcacaactg ggagacctcc catggcaggt ggcaattaag	1020
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gatgcctgta aaggggactc tggaggcccc ttagtctgta tggatgcaa caatgtgact	1560
tatgtctggg gtgttgtag ttggggggaa aactgtggaa aaccagagtt cccaggtgtt	1620
tacaccaaag tggccaatta ttttgactgg attagctacc atgtaggaag gccttttatt	1680
tctcagtaca atgtataa	1698

<210> 43
 <211> 583
 <212> PRT
 <213> Homo sapiens

<400> 43

Met	Lys	Leu	Leu	His	Val	Phe	Leu	Leu	Phe	Leu	Cys	Phe	His	Leu	Arg
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Phe Cys Lys Val Thr Tyr Thr Ser Gln Glu Asp Leu Val Glu Lys Lys
20 25 30

Cys Leu Ala Lys Lys Tyr Thr His Leu Ser Cys Asp Lys Val Phe Cys
35 40 45

Gln Pro Trp Gln Arg Cys Ile Glu Gly Thr Cys Val Cys Lys Leu Pro
50 55 60

Tyr Gln Cys Pro Lys Asn Gly Thr Ala Val Cys Ala Thr Asn Arg Arg
65 70 75 80

Ser Phe Pro Thr Tyr Cys Gln Gln Lys Ser Leu Glu Cys Leu His Pro
85 90 95

Gly Thr Lys Phe Leu Asn Asn Gly Thr Cys Thr Ala Glu Gly Lys Phe
100 105 110

Ser Val Ser Leu Lys His Gly Asn Thr Asp Ser Glu Gly Ile Val Glu
115 120 125

Val Lys Leu Val Asp Gln Asp Lys Thr Met Phe Ile Cys Lys Ser Ser
130 135 140

Trp Ser Met Arg Glu Ala Asn Val Ala Cys Leu Asp Leu Gly Phe Gln
145 150 155 160

Gln Gly Ala Asp Thr Gln Arg Arg Phe Lys Leu Ser Asp Leu Ser Ile
165 170 175

Asn Ser Thr Glu Cys Leu His Val His Cys Arg Gly Leu Glu Thr Ser
180 185 190

Leu Ala Glu Cys Thr Phe Thr Lys Arg Arg Thr Met Gly Tyr Gln Asp
195 200 205

Phe Ala Asp Val Val Cys Tyr Thr Gln Lys Ala Asp Ser Pro Met Asp
210 215 220

Asp Phe Phe Gln Cys Val Asn Gly Lys Tyr Ile Ser Gln Met Lys Ala
225 230 235 240

Cys Asp Gly Ile Asn Asp Cys Gly Asp Gln Ser Asp Glu Leu Cys Cys
245 250 255

Lys Ala Cys Gln Gly Lys Gly Phe His Cys Lys Ser Gly Val Cys Ile
260 265 270

Pro Ser Gln Tyr Gln Cys Asn Gly Glu Val Asp Cys Ile Thr Gly Glu
275 280 285

Asp Glu Val Gly Cys Ala Gly Phe Ala Ser Val Thr Gln Glu Glu Thr
290 295 300

Glu Ile Leu Thr Ala Asp Met Asp Ala Glu Arg Arg Arg Ile Lys Ser
305 310 315 320

Leu Leu Pro Lys Leu Ser Cys Gly Val Lys Asn Arg Met His Ile Arg
325 330 335

Arg Lys Arg Ile Val Gly Gly Lys Arg Ala Gln Leu Gly Asp Leu Pro
340 345 350

Trp Gln Val Ala Ile Lys Asp Ala Ser Gly Ile Thr Cys Gly Gly Ile
355 360 365

Tyr Ile Gly Gly Cys Trp Ile Leu Thr Ala Ala His Cys Leu Arg Ala
370 375 380

Ser Lys Thr His Arg Tyr Gln Ile Trp Thr Thr Val Val Asp Trp Ile
385 390 395 400

His Pro Asp Leu Lys Arg Ile Val Ile Glu Tyr Val Asp Arg Ile Ile
405 410 415

Phe His Glu Asn Tyr Asn Ala Gly Thr Tyr Gln Asn Asp Ile Ala Leu
420 425 430

Ile Glu Met Lys Lys Asp Gly Asn Lys Lys Asp Cys Glu Leu Pro Arg
435 440 445

Ser Ile Pro Ala Cys Val Pro Trp Ser Pro Tyr Leu Phe Gln Pro Asn
450 455 460

Asp Thr Cys Ile Val Ser Gly Trp Gly Arg Glu Lys Asp Asn Glu Arg
465 470 475 480

Val Phe Ser Leu Gln Trp Gly Glu Val Lys Leu Ile Ser Asn Cys Ser
485 490 495

Lys Phe Tyr Gly Asn Arg Phe Tyr Glu Lys Glu Met Glu Cys Ala Gly
500 505 510

Thr Tyr Asp Gly Ser Ile Asp Ala Cys Lys Gly Asp Ser Gly Gly Pro
515 520 525

Leu Val Cys Met Asp Ala Asn Asn Val Thr Tyr Val Trp Gly Val Val
530 535 540

Ser Trp Gly Glu Asn Cys Gly Lys Pro Glu Phe Pro Gly Val Tyr Thr
545 550 555 560

Lys Val Ala Asn Tyr Phe Asp Trp Ile Ser Tyr His Val Gly Arg Pro
565 570 575

Phe Ile Ser Gln Tyr Asn Val
580

<210> 44
<211> 565
<212> PRT
<213> Homo sapiens

<400> 44

Lys Val Thr Tyr Thr Ser Gln Glu Asp Leu Val Glu Lys Lys Cys Leu
1 5 10 15

Ala Lys Lys Tyr Thr His Leu Ser Cys Asp Lys Val Phe Cys Gln Pro
20 25 30

Trp Gln Arg Cys Ile Glu Gly Thr Cys Val Cys Lys Leu Pro Tyr Gln

35

40

45

Cys Pro Lys Asn Gly Thr Ala Val Cys Ala Thr Asn Arg Arg Ser Phe
 50 55 60

Pro Thr Tyr Cys Gln Gln Lys Ser Leu Glu Cys Leu His Pro Gly Thr
 65 70 75 80

Lys Phe Leu Asn Asn Gly Thr Cys Thr Ala Glu Gly Lys Phe Ser Val
 85 90 95

Ser Leu Lys His Gly Asn Thr Asp Ser Glu Gly Ile Val Glu Val Lys
 100 105 110

Leu Val Asp Gln Asp Lys Thr Met Phe Ile Cys Lys Ser Ser Trp Ser
 115 120 125

Met Arg Glu Ala Asn Val Ala Cys Leu Asp Leu Gly Phe Gln Gln Gly
 130 135 140

Ala Asp Thr Gln Arg Arg Phe Lys Leu Ser Asp Leu Ser Ile Asn Ser
 145 150 155 160

Thr Glu Cys Leu His Val His Cys Arg Gly Leu Glu Thr Ser Leu Ala
 165 170 175

Glu Cys Thr Phe Thr Lys Arg Arg Thr Met Gly Tyr Gln Asp Phe Ala
 180 185 190

Asp Val Val Cys Tyr Thr Gln Lys Ala Asp Ser Pro Met Asp Asp Phe
 195 200 205

Phe Gln Cys Val Asn Gly Lys Tyr Ile Ser Gln Met Lys Ala Cys Asp
 210 215 220

Gly Ile Asn Asp Cys Gly Asp Gln Ser Asp Glu Leu Cys Cys Lys Ala
 225 230 235 240

Cys Gln Gly Lys Gly Phe His Cys Lys Ser Gly Val Cys Ile Pro Ser
 245 250 255

Gln Tyr Gln Cys Asn Gly Glu Val Asp Cys Ile Thr Gly Glu Asp Glu
260 265 270

Val Gly Cys Ala Gly Phe Ala Ser Val Thr Gln Glu Glu Thr Glu Ile
275 280 285

Leu Thr Ala Asp Met Asp Ala Glu Arg Arg Arg Ile Lys Ser Leu Leu
290 295 300

Pro Lys Leu Ser Cys Gly Val Lys Asn Arg Met His Ile Arg Arg Lys
305 310 315 320

Arg Ile Val Gly Gly Lys Arg Ala Gln Leu Gly Asp Leu Pro Trp Gln
325 330 335

Val Ala Ile Lys Asp Ala Ser Gly Ile Thr Cys Gly Gly Ile Tyr Ile
340 345 350

Gly Gly Cys Trp Ile Leu Thr Ala Ala His Cys Leu Arg Ala Ser Lys
355 360 365

Thr His Arg Tyr Gln Ile Trp Thr Thr Val Val Asp Trp Ile His Pro
370 375 380

Asp Leu Lys Arg Ile Val Ile Glu Tyr Val Asp Arg Ile Ile Phe His
385 390 395 400

Glu Asn Tyr Asn Ala Gly Thr Tyr Gln Asn Asp Ile Ala Leu Ile Glu
405 410 415

Met Lys Lys Asp Gly Asn Lys Lys Asp Cys Glu Leu Pro Arg Ser Ile
420 425 430

Pro Ala Cys Val Pro Trp Ser Pro Tyr Leu Phe Gln Pro Asn Asp Thr
435 440 445

Cys Ile Val Ser Gly Trp Gly Arg Glu Lys Asp Asn Glu Arg Val Phe
450 455 460

Ser Leu Gln Trp Gly Glu Val Lys Leu Ile Ser Asn Cys Ser Lys Phe

465 470 475 480

Tyr Gly Asn Arg Phe Tyr Glu Lys Glu Met Glu Cys Ala Gly Thr Tyr
485 490 495

Asp Gly Ser Ile Asp Ala Cys Lys Gly Asp Ser Gly Gly Pro Leu Val
500 505 510

Cys Met Asp Ala Asn Asn Val Thr Tyr Val Trp Gly Val Val Ser Trp
515 520 525

Gly Glu Asn Cys Gly Lys Pro Glu Phe Pro Gly Val Tyr Thr Lys Val
530 535 540

Ala Asn Tyr Phe Asp Trp Ile Ser Tyr His Val Gly Arg Pro Phe Ile
545 550 555 560

Ser Gln Tyr Asn Val
565

<210> 45
<211> 54
<212> DNA
<213> Homo sapiens

<400> 45
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<210> 46
<211> 18
<212> PRT
<213> Homo sapiens

<400> 46
Met Lys Leu Leu His Val Phe Leu Leu Phe Leu Cys Phe His Leu Arg
1 5 10 15

Phe Cys

<210> 47
<211> 185
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 47

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gaccttggtt aatattcacc agcagcctcc cccgttgccc ctctggatcc actgcttaaa 120

tacggacgag gacagggccc tgtctcctca gcttcaggca ccaccactga cctgggacag 180

tgaat 185

<210> 48

<211> 418

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 48

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aagtgggtact ctcccagaga ctgtctgact cacgccaccc cctccacctt ggacacagga 120

cgctgtgggtt tctgagccag gtacaatgac tcctttcgggt aagtgcagtg gaagctgtac 180

actgcccagg caaagcgtcc gggcagcgta ggcgggagac tcagatcca gccagtggac 240

ttagcccctg tttgctcctc cgataactgg ggtgaccttg gttaatatcc accagcagcc 300

tccccggtg cccctctgga tccactgctt aaatacggac gaggacaggg ccctgtctcc 360

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<210> 49

<211> 117

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 49

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tgaccttgga gctggggcag aggtcagaca cctctctggg cccatgccac ctccaac 117

<210> 50

<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 50
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tactcatgtc cctaaaatgg gcaaacattg caagcagcaa acagcaaaca cacagccctc 180
cctgcctgct gaccttggag ctggggcaga ggtcagagac ctctctgggc ccatgccacc 240
tccaacatcc actcgacccc ttggaatttc ggtggagagg agcagagggtt gtcctggcgt 300
ggttaggta gtgtgagagg g 321

<210> 51
<211> 334
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 51
ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct ccctgcctgc 60
tgaccttgga gctggggcag aggtcagaca cctctctggg cccatgccac ctccaactgg 120
acacaggacg ctgtgggttc tgagccaggg ggcgactcag atcccagcca gtggacttag 180
cccctgtttg ctctccgat aactgggggtg accttggtta atattcacca gcagcctccc 240
ccgttgcccc tctggatcca ctgcttaa atacggacgagg acagggccct gtctcctcag 300
cttcaggcac caccactgac ctgggacagt gaat 334

<210> 52
<211> 747
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 52
aggctcagag gcacacagga gtttctgggc tcaccctgcc cccttccaac ccctcagttc 60

ccatcctcca gcagctgttt gtgtgctgcc tctgaagtcc acactgaaca aacttcagcc	120
tactcatgtc cctaaaatgg gcaaacattg caagcagcaa acagcaaaca cacagccctc	180
cctgcctgct gaccttggag ctggggcgaga ggtcagagac ctctctgggc ccatgccacc	240
tccaacatcc actcgacccc ttggaatttc ggtggagagg agcagaggtt gtcctggcgt	300
ggtttaggta gtgtgagagg ggtacccggg gatcttgcta ccagtggaac agccactaag	360
gattctgcag tgagagcaga gggccagcta agtgggtactc tcccagagac tgtctgactc	420
acgccacccc ctccaccttg gacacaggac gctgtggttt ctgagccagg tacaatgact	480
cctttcggtg agtgcagtgg aagctgtaca ctgcccaggc aaagcgccg ggcagcgtag	540
gcgggcgact cagatcccag ccagtggact tagcccctgt ttgctcctcc gataactggg	600
gtgaccttgg ttaatatcca ccagcagcct cccccgttgc ccctctggat ccactgctta	660
aatacggacg aggacagggc cctgtctcct cagcttcagg caccaccact gacctgggac	720
agtgaatgat ccccctgatc tgcggcc	747

<210> 53
 <211> 145
 <212> DNA
 <213> adeno-associated virus 2

<400> 53	
ttggccactc cctctctgcg cgctcgctcg ctactgagg ccgggcgacc aaaggtcgcc	60
cgacgcccgg gctttgcccg ggcggcctca gtgagcgagc gagcgcgag agagggagtg	120
gccaactcca tcactagggg ttcct	145

<210> 54
 <211> 145
 <212> DNA
 <213> adeno-associated virus 2

<400> 54	
aggaaccctt agtgatggag ttggccactc cctctctgcg cgctcgctcg ctactgagg	60
ccgggcgacc aaaggtcgcc cgacgcccgg gctttgcccg ggcggcctca gtgagcgagc	120
gagcgcgag agagggagtg gcca	145

<210> 55
 <211> 208
 <212> DNA

<213> Bos taurus

<400> 55

ctgtgccttc tagttgccag ccattctgttg tttgccctc ccccgtagcct tccttgaccc 60

tggaagggtgc cactcccact gtcctttcct aataaaatga ggaaattgca tcgcattgtc 120

tgagtaggtg tcattctatt ctgggggggtg gggtggggca ggacagcaag ggggaggatt 180

gggaagacaa tagcaggcat gctgggga 208

<210> 56

<211> 736

<212> PRT

<213> adeno-associated virus 3B

<400> 56

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Val Pro Gln Pro
20 25 30

Lys Ala Asn Gln Gln His Gln Asp Asn Arg Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Glu Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
85 90 95

Asp Ala Glu Phe Gln Glu Arg Leu Gln Glu Asp Thr Ser Phe Gly Gly
100 105 110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Ile Leu Glu Pro
115 120 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
130 135 140

Pro Val Asp Gln Ser Pro Gln Glu Pro Asp Ser Ser Ser Gly Val Gly
145 150 155 160

Lys Ser Gly Lys Gln Pro Ala Arg Lys Arg Leu Asn Phe Gly Gln Thr
165 170 175

Gly Asp Ser Glu Ser Val Pro Asp Pro Gln Pro Leu Gly Glu Pro Pro
180 185 190

Ala Ala Pro Thr Ser Leu Gly Ser Asn Thr Met Ala Ser Gly Gly Gly
195 200 205

Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Asn Ser
210 215 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
225 230 235 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
245 250 255

Tyr Lys Gln Ile Ser Ser Gln Ser Gly Ala Ser Asn Asp Asn His Tyr
260 265 270

Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe His
275 280 285

Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn Asn Trp
290 295 300

Gly Phe Arg Pro Lys Lys Leu Ser Phe Lys Leu Phe Asn Ile Gln Val
305 310 315 320

Lys Glu Val Thr Gln Asn Asp Gly Thr Thr Thr Ile Ala Asn Asn Leu
325 330 335

Thr Ser Thr Val Gln Val Phe Thr Asp Ser Glu Tyr Gln Leu Pro Tyr
340 345 350

Val Leu Gly Ser Ala His Gln Gly Cys Leu Pro Pro Phe Pro Ala Asp

355

360

365

Val Phe Met Val Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asn Gly Ser
 370 375 380

Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe Pro Ser
 385 390 395 400

Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Thr Phe Glu
 405 410 415

Asp Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu Asp Arg
 420 425 430

Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Asn Arg Thr
 435 440 445

Gln Gly Thr Thr Ser Gly Thr Thr Asn Gln Ser Arg Leu Leu Phe Ser
 450 455 460

Gln Ala Gly Pro Gln Ser Met Ser Leu Gln Ala Arg Asn Trp Leu Pro
 465 470 475 480

Gly Pro Cys Tyr Arg Gln Gln Arg Leu Ser Lys Thr Ala Asn Asp Asn
 485 490 495

Asn Asn Ser Asn Phe Pro Trp Thr Ala Ala Ser Lys Tyr His Leu Asn
 500 505 510

Gly Arg Asp Ser Leu Val Asn Pro Gly Pro Ala Met Ala Ser His Lys
 515 520 525

Asp Asp Glu Glu Lys Phe Phe Pro Met His Gly Asn Leu Ile Phe Gly
 530 535 540

Lys Glu Gly Thr Thr Ala Ser Asn Ala Glu Leu Asp Asn Val Met Ile
 545 550 555 560

Thr Asp Glu Glu Glu Ile Arg Thr Thr Asn Pro Val Ala Thr Glu Gln
 565 570 575

Tyr Gly Thr Val Ala Asn Asn Leu Gln Ser Ser Asn Thr Ala Pro Thr
580 585 590

Thr Arg Thr Val Asn Asp Gln Gly Ala Leu Pro Gly Met Val Trp Gln
595 600 605

Asp Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His
610 615 620

Thr Asp Gly His Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Leu
625 630 635 640

Lys His Pro Pro Pro Gln Ile Met Ile Lys Asn Thr Pro Val Pro Ala
645 650 655

Asn Pro Pro Thr Thr Phe Ser Pro Ala Lys Phe Ala Ser Phe Ile Thr
660 665 670

Gln Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln
675 680 685

Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn
690 695 700

Tyr Asn Lys Ser Val Asn Val Asp Phe Thr Val Asp Thr Asn Gly Val
705 710 715 720

Tyr Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Asn Leu
725 730 735

<210> 57

<211> 736

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic capsid protein

<400> 57

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Lys Pro Gly Ala Pro Lys Pro
20 25 30

Lys Ala Asn Gln Gln Lys Gln Asp Asp Gly Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Phe Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Gln Gln Leu Gln Ala Gly Asp Asn Pro Tyr Leu Arg Tyr Asn His Ala
85 90 95

Asp Ala Glu Phe Gln Glu Arg Leu Gln Glu Asp Thr Ser Phe Gly Gly
100 105 110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Val Leu Glu Pro
115 120 125

Leu Gly Leu Val Glu Glu Gly Ala Lys Thr Ala Pro Gly Lys Lys Arg
130 135 140

Pro Val Asp Gln Ser Pro Gln Glu Pro Asp Ser Ser Ser Gly Val Gly
145 150 155 160

Lys Ser Gly Lys Gln Pro Ala Arg Lys Arg Leu Asn Phe Gly Gln Thr
165 170 175

Gly Asp Ser Glu Ser Val Pro Asp Pro Gln Pro Leu Gly Glu Pro Pro
180 185 190

Ala Ala Pro Thr Ser Leu Gly Ser Asn Thr Met Ala Ser Gly Gly Gly
195 200 205

Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Asn Ser
210 215 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile

225		230		235		240									
Thr	Thr	Ser	Thr	Arg	Thr	Trp	Ala	Leu	Pro	Thr	Tyr	Asn	Asn	His	Leu
				245					250					255	
Tyr	Lys	Gln	Ile	Ser	Ser	Gln	Ser	Gly	Ala	Ser	Asn	Asp	Asn	His	Tyr
			260					265					270		
Phe	Gly	Tyr	Ser	Thr	Pro	Trp	Gly	Tyr	Phe	Asp	Phe	Asn	Arg	Phe	His
		275					280					285			
Cys	His	Phe	Ser	Pro	Arg	Asp	Trp	Gln	Arg	Leu	Ile	Asn	Asn	Asn	Trp
	290					295					300				
Gly	Phe	Arg	Pro	Lys	Lys	Leu	Ser	Phe	Lys	Leu	Phe	Asn	Ile	Gln	Val
305					310					315					320
Lys	Glu	Val	Thr	Gln	Asn	Asp	Gly	Thr	Thr	Thr	Ile	Ala	Asn	Asn	Leu
				325					330					335	
Thr	Ser	Thr	Val	Gln	Val	Phe	Thr	Asp	Ser	Glu	Tyr	Gln	Leu	Pro	Tyr
			340					345					350		
Val	Leu	Gly	Ser	Ala	His	Gln	Gly	Cys	Leu	Pro	Pro	Phe	Pro	Ala	Asp
		355					360					365			
Val	Phe	Met	Val	Pro	Gln	Tyr	Gly	Tyr	Leu	Thr	Leu	Asn	Asn	Gly	Ser
	370					375					380				
Gln	Ala	Val	Gly	Arg	Ser	Ser	Phe	Tyr	Cys	Leu	Glu	Tyr	Phe	Pro	Ser
385					390					395					400
Gln	Met	Leu	Arg	Thr	Gly	Asn	Asn	Phe	Gln	Phe	Ser	Tyr	Thr	Phe	Glu
				405					410					415	
Asp	Val	Pro	Phe	His	Ser	Ser	Tyr	Ala	His	Ser	Gln	Ser	Leu	Asp	Arg
			420					425					430		
Leu	Met	Asn	Pro	Leu	Ile	Asp	Gln	Tyr	Leu	Tyr	Tyr	Leu	Asn	Arg	Thr
		435					440					445			

Gln Gly Thr Thr Ser Gly Thr Thr Asn Gln Ser Arg Leu Leu Phe Ser
450 455 460

Gln Ala Gly Pro Gln Ser Met Ser Leu Gln Ala Arg Asn Trp Leu Pro
465 470 475 480

Gly Pro Cys Tyr Arg Gln Gln Arg Leu Ser Lys Thr Ala Asn Asp Asn
485 490 495

Asn Asn Ser Asn Phe Pro Trp Thr Ala Ala Ser Lys Tyr His Leu Asn
500 505 510

Gly Arg Asp Ser Leu Val Asn Pro Gly Pro Ala Met Ala Ser His Lys
515 520 525

Asp Asp Glu Glu Lys Phe Phe Pro Met His Gly Asn Leu Ile Phe Gly
530 535 540

Lys Glu Gly Thr Thr Ala Ser Asn Ala Glu Leu Asp Asn Val Met Ile
545 550 555 560

Thr Asp Glu Glu Glu Ile Arg Thr Thr Asn Pro Val Ala Thr Glu Gln
565 570 575

Tyr Gly Thr Val Ala Asn Asn Leu Gln Ser Ser Asn Thr Ala Pro Thr
580 585 590

Thr Arg Thr Val Asn Asp Gln Gly Ala Leu Pro Gly Met Val Trp Gln
595 600 605

Asp Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His
610 615 620

Thr Asp Gly His Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Leu
625 630 635 640

Lys His Pro Pro Pro Gln Ile Met Ile Lys Asn Thr Pro Val Pro Ala
645 650 655

Asn Pro Pro Thr Thr Phe Ser Pro Ala Lys Phe Ala Ser Phe Ile Thr

660

665

670

Gln Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln
 675 680 685

Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn
 690 695 700

Tyr Asn Lys Ser Val Asn Val Asp Phe Thr Val Asp Thr Asn Gly Val
 705 710 715 720

Tyr Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Asn Leu
 725 730 735

<210> 58

<211> 736

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic capsid protein

<400> 58

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Asn Leu Ser
 1 5 10 15

Glu Gly Ile Arg Glu Trp Trp Ala Leu Gln Pro Gly Ala Pro Lys Pro
 20 25 30

Lys Ala Asn Gln Gln His Gln Asp Asn Ala Arg Gly Leu Val Leu Pro
 35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Gly Asn Gly Leu Asp Lys Gly Glu Pro
 50 55 60

Val Asn Ala Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
 65 70 75 80

Gln Gln Leu Lys Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
 85 90 95

Asp Ala Glu Phe Gln Glu Arg Leu Lys Glu Asp Thr Ser Phe Gly Gly

100

105

110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Leu Leu Glu Pro
 115 120 125

Leu Gly Leu Val Glu Glu Ala Ala Lys Thr Ala Pro Gly Lys Lys Arg
 130 135 140

Pro Val Asp Gln Ser Pro Gln Glu Pro Asp Ser Ser Ser Gly Val Gly
 145 150 155 160

Lys Ser Gly Lys Gln Pro Ala Arg Lys Arg Leu Asn Phe Gly Gln Thr
 165 170 175

Gly Asp Ser Glu Ser Val Pro Asp Pro Gln Pro Leu Gly Glu Pro Pro
 180 185 190

Ala Ala Pro Thr Ser Leu Gly Ser Asn Thr Met Ala Ser Gly Gly Gly
 195 200 205

Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Asn Ser
 210 215 220

Ser Gly Asn Trp His Cys Asp Ser Gln Trp Leu Gly Asp Arg Val Ile
 225 230 235 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
 245 250 255

Tyr Lys Gln Ile Ser Ser Gln Ser Gly Ala Ser Asn Asp Asn His Tyr
 260 265 270

Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe His
 275 280 285

Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn Asn Trp
 290 295 300

Gly Phe Arg Pro Lys Lys Leu Ser Phe Lys Leu Phe Asn Ile Gln Val
 305 310 315 320

Lys Glu Val Thr Gln Asn Asp Gly Thr Thr Thr Ile Ala Asn Asn Leu
325 330 335

Thr Ser Thr Val Gln Val Phe Thr Asp Ser Glu Tyr Gln Leu Pro Tyr
340 345 350

Val Leu Gly Ser Ala His Gln Gly Cys Leu Pro Pro Phe Pro Ala Asp
355 360 365

Val Phe Met Val Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asn Gly Ser
370 375 380

Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe Pro Ser
385 390 395 400

Gln Met Leu Arg Thr Gly Asn Asn Phe Gln Phe Ser Tyr Thr Phe Glu
405 410 415

Asp Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu Asp Arg
420 425 430

Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Asn Arg Thr
435 440 445

Gln Gly Thr Thr Ser Gly Thr Thr Asn Gln Ser Arg Leu Leu Phe Ser
450 455 460

Gln Ala Gly Pro Gln Ser Met Ser Leu Gln Ala Arg Asn Trp Leu Pro
465 470 475 480

Gly Pro Cys Tyr Arg Gln Gln Arg Leu Ser Lys Thr Ala Asn Asp Asn
485 490 495

Asn Asn Ser Asn Phe Pro Trp Thr Ala Ala Ser Lys Tyr His Leu Asn
500 505 510

Gly Arg Asp Ser Leu Val Asn Pro Gly Pro Ala Met Ala Ser His Lys
515 520 525

Asp Asp Glu Glu Lys Phe Phe Pro Met His Gly Asn Leu Ile Phe Gly

530

535

540

Lys Glu Gly Thr Thr Ala Ser Asn Ala Glu Leu Asp Asn Val Met Ile
 545 550 555 560

Thr Asp Glu Glu Glu Ile Arg Thr Thr Asn Pro Val Ala Thr Glu Gln
 565 570 575

Tyr Gly Thr Val Ala Asn Asn Leu Gln Ser Ser Asn Thr Ala Pro Thr
 580 585 590

Thr Arg Thr Val Asn Asp Gln Gly Ala Leu Pro Gly Met Val Trp Gln
 595 600 605

Asp Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His
 610 615 620

Thr Asp Gly His Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Leu
 625 630 635 640

Lys His Pro Pro Pro Gln Ile Met Ile Lys Asn Thr Pro Val Pro Ala
 645 650 655

Asn Pro Pro Thr Thr Phe Ser Pro Ala Lys Phe Ala Ser Phe Ile Thr
 660 665 670

Gln Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln
 675 680 685

Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn
 690 695 700

Tyr Asn Lys Ser Val Asn Val Asp Phe Thr Val Asp Thr Asn Gly Val
 705 710 715 720

Tyr Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Pro Leu
 725 730 735

<210> 59

<211> 724

<212> PRT

<213> adeno-associated virus 5

<400> 59

Met Ser Phe Val Asp His Pro Pro Asp Trp Leu Glu Glu Val Gly Glu
1 5 10 15

Gly Leu Arg Glu Phe Leu Gly Leu Glu Ala Gly Pro Pro Lys Pro Lys
20 25 30

Pro Asn Gln Gln His Gln Asp Gln Ala Arg Gly Leu Val Leu Pro Gly
35 40 45

Tyr Asn Tyr Leu Gly Pro Gly Asn Gly Leu Asp Arg Gly Glu Pro Val
50 55 60

Asn Arg Ala Asp Glu Val Ala Arg Glu His Asp Ile Ser Tyr Asn Glu
65 70 75 80

Gln Leu Glu Ala Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala Asp
85 90 95

Ala Glu Phe Gln Glu Lys Leu Ala Asp Asp Thr Ser Phe Gly Gly Asn
100 105 110

Leu Gly Lys Ala Val Phe Gln Ala Lys Lys Arg Val Leu Glu Pro Phe
115 120 125

Gly Leu Val Glu Glu Gly Ala Lys Thr Ala Pro Thr Gly Lys Arg Ile
130 135 140

Asp Asp His Phe Pro Lys Arg Lys Lys Ala Arg Thr Glu Glu Asp Ser
145 150 155 160

Lys Pro Ser Thr Ser Ser Asp Ala Glu Ala Gly Pro Ser Gly Ser Gln
165 170 175

Gln Leu Gln Ile Pro Ala Gln Pro Ala Ser Ser Leu Gly Ala Asp Thr
180 185 190

Met Ser Ala Gly Gly Gly Gly Pro Leu Gly Asp Asn Asn Gln Gly Ala
195 200 205

Asp Gly Val Gly Asn Ala Ser Gly Asp Trp His Cys Asp Ser Thr Trp
210 215 220

Met Gly Asp Arg Val Val Thr Lys Ser Thr Arg Thr Trp Val Leu Pro
225 230 235 240

Ser Tyr Asn Asn His Gln Tyr Arg Glu Ile Lys Ser Gly Ser Val Asp
245 250 255

Gly Ser Asn Ala Asn Ala Tyr Phe Gly Tyr Ser Thr Pro Trp Gly Tyr
260 265 270

Phe Asp Phe Asn Arg Phe His Ser His Trp Ser Pro Arg Asp Trp Gln
275 280 285

Arg Leu Ile Asn Asn Tyr Trp Gly Phe Arg Pro Arg Ser Leu Arg Val
290 295 300

Lys Ile Phe Asn Ile Gln Val Lys Glu Val Thr Val Gln Asp Ser Thr
305 310 315 320

Thr Thr Ile Ala Asn Asn Leu Thr Ser Thr Val Gln Val Phe Thr Asp
325 330 335

Asp Asp Tyr Gln Leu Pro Tyr Val Val Gly Asn Gly Thr Glu Gly Cys
340 345 350

Leu Pro Ala Phe Pro Pro Gln Val Phe Thr Leu Pro Gln Tyr Gly Tyr
355 360 365

Ala Thr Leu Asn Arg Asp Asn Thr Glu Asn Pro Thr Glu Arg Ser Ser
370 375 380

Phe Phe Cys Leu Glu Tyr Phe Pro Ser Lys Met Leu Arg Thr Gly Asn
385 390 395 400

Asn Phe Glu Phe Thr Tyr Asn Phe Glu Glu Val Pro Phe His Ser Ser
405 410 415

Phe Ala Pro Ser Gln Asn Leu Phe Lys Leu Ala Asn Pro Leu Val Asp
420 425 430

Gln Tyr Leu Tyr Arg Phe Val Ser Thr Asn Asn Thr Gly Gly Val Gln
435 440 445

Phe Asn Lys Asn Leu Ala Gly Arg Tyr Ala Asn Thr Tyr Lys Asn Trp
450 455 460

Phe Pro Gly Pro Met Gly Arg Thr Gln Gly Trp Asn Leu Gly Ser Gly
465 470 475 480

Val Asn Arg Ala Ser Val Ser Ala Phe Ala Thr Thr Asn Arg Met Glu
485 490 495

Leu Glu Gly Ala Ser Tyr Gln Val Pro Pro Gln Pro Asn Gly Met Thr
500 505 510

Asn Asn Leu Gln Gly Ser Asn Thr Tyr Ala Leu Glu Asn Thr Met Ile
515 520 525

Phe Asn Ser Gln Pro Ala Asn Pro Gly Thr Thr Ala Thr Tyr Leu Glu
530 535 540

Gly Asn Met Leu Ile Thr Ser Glu Ser Glu Thr Gln Pro Val Asn Arg
545 550 555 560

Val Ala Tyr Asn Val Gly Gly Gln Met Ala Thr Asn Asn Gln Ser Ser
565 570 575

Thr Thr Ala Pro Ala Thr Gly Thr Tyr Asn Leu Gln Glu Ile Val Pro
580 585 590

Gly Ser Val Trp Met Glu Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp
595 600 605

Ala Lys Ile Pro Glu Thr Gly Ala His Phe His Pro Ser Pro Ala Met
610 615 620

Gly Gly Phe Gly Leu Lys His Pro Pro Pro Met Met Leu Ile Lys Asn
625 630 635 640

Thr Pro Val Pro Gly Asn Ile Thr Ser Phe Ser Asp Val Pro Val Ser
645 650 655

Ser Phe Ile Thr Gln Tyr Ser Thr Gly Gln Val Thr Val Glu Met Glu
660 665 670

Trp Glu Leu Lys Lys Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln
675 680 685

Tyr Thr Asn Asn Tyr Asn Asp Pro Gln Phe Val Asp Phe Ala Pro Asp
690 695 700

Ser Thr Gly Glu Tyr Arg Thr Thr Arg Pro Ile Gly Thr Arg Tyr Leu
705 710 715 720

Thr Arg Pro Leu

<210> 60
<211> 66
<212> DNA
<213> Simian virus 40

<400> 60
gtaaatataa aatttttaag tgtataatgt gttaaactac tgattctaatt tgtttctctc 60
tttttag 66

<210> 61
<211> 659
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 61
gacattgatt attgactagt tattaatagt aatcaattac ggggtcatta gttcatagcc 60
catatatgga gttccgcgtt acataactta cggtaaattgg cccgcctggc tgaccgccca 120
acgacccccg cccattgacg tcaataatga cgtatgttcc catagtaacg ccaataggga 180
ctttccattg acgtcaatgg gtggagtatt tacggtaaac tgcccacttg gcagtacatc 240

aagtgtatca tatgccaagt acgcccccta ttgacgtcaa tgacggtaaa tggcccgcct	300
ggcattatgc ccagtacatg accttatggg actttcctac ttggcagtac atctacgtat	360
tagtcatcgc tattaccatg gtcgaggtga gccccacgtt ctgcttcact ctccccatct	420
cccccccctc cccacccccca attttgtatt tatttatttt ttaattattt tgtgcagcga	480
tgggggcggg gggggggggg gggcgcgcg caggcggggc ggggcggggc gaggggcggg	540
gcggggcgag gcggagaggt gcggcggcag ccaatcagag cggcgcgctc cgaaagtttc	600
cttttatggc gaggcggcgg cggcgggcgg cctataaaaa gcgaagcgcg cggcgggcg	659

<210> 62
 <211> 588
 <212> DNA
 <213> Woodchuck hepatitis virus

<400> 62	
atcaacctct ggattacaaa atttgtgaaa gattgactgg tattcttaac tatgttgctc	60
cttttacgct atgtggatac gctgctttaa tgcctttgta tcatgctatt gcttcccgt	120
tggctttcat tttctcctcc ttgtataaat cctggttgct gtctctttat gaggagtgtg	180
ggcccgttgt caggcaacgt ggcgtgggtg gcactgtgtt tgctgacgca accccactg	240
gttggggcat tgccaccacc tgtcagctcc tttccgggac tttcgctttc cccctcccta	300
ttgccacggc ggaactcatc gccgcctgcc ttgcccgctg ctggacaggg gctcggctgt	360
tgggcactga caattccgtg gtgttgtcgg ggaaatcatc gtcctttcct tggctgctcg	420
cctgtgttgc cacctggatt ctgcgcggga cgtccttctg ctacgtccct tcggccctca	480
atccagcgga ccttccttcc cgcggcctgc tgccggctct gcggcctctt ccgcgtcttc	540
gccttcgccc tcagacgagt cggatctccc tttgggccgc ctccccgc	588

<210> 63
 <211> 245
 <212> DNA
 <213> Woodchuck hepatitis virus

<400> 63	
aatcaacctc tggattacaa aatttgtgaa agattgactg gtattcttaa ctatgttgct	60
ccttttacgc tatgtggata cgctgcttta atgcctttgt atcatgctat tgcttcccgt	120
atggctttca ttttctctc cttgtataaa tcctggttag ttcttgccac ggcggaactc	180

atcgccgcct gccttgcccc ctgctggaca ggggctcggc tgttgggcac tgacaattcc	240
gtggt	245

<210> 64
 <211> 589
 <212> DNA
 <213> Woodchuck hepatitis virus

<400> 64	
aatcaacctc tggattacaa aatttgtgaa agattgactg gtattcttaa ctatgttgct	60
ccttttacgc tatgtggata cgctgcttta atgcctttgt atcatgctat tgcttcccgt	120
atggccttca ttttctcctc cttgtataaa tcctggttgc tgtctcttta tgaggagttg	180
tggcccgttg tcaggcaacg tggcgtggtg tgcactgtgt ttgctgacgc aacccccact	240
ggttggggca ttgccaccac ctgtcagctc ctttccggga ctttcgcttt cccctccct	300
attgccacgg cggaactcat cgccgcctgc cttgcccgtc gctggacagg ggctcggctg	360
ttgggcactg acaattccgt ggtgttgctg gggaaatcat cgtcctttcc ttggctgctc	420
gcctgtgttg ccacctggat tctgcgcggg acgtccttct gctacgtccc ttcggccctc	480
aatccagcgg accttccttc ccgcggcctg ctgccggctc tgcggcctct tccgcgtctt	540
cgccttcgcc ctgagacgag tcggatctcc ctttgggccg cctccccgc	589

<210> 65
 <211> 119
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 65	
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attcaccagc agcctcccc tcagcttcag gcaccaccac tgacctggga cagtgaatc	119

<210> 66
 <211> 119
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 66
cccagccagt ggacttagcc cctgtttgct cctccgataa ctggggtgac cttggttaat 60
attcaccagc agcctcccc tcagcttcag gcaccaccac tgacctggga cagtgaatc 119

<210> 67
<211> 747
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 67
aggctcagag gcacacagga gtttctgggc tcaccctgcc cccttccaac ccctcagttc 60
ccatcctcca gcagctgttt gtgtgctgcc tctgaagtcc aactgaaca aacttcagcc 120
tactcatgtc ctaaaatgg gcaaacattg caagcagcaa acagcaaaca cacagccctc 180
cctgcctgct gaccttggag ctggggcaga ggtcagagac ctctctgggc ccatgccacc 240
tccaacatcc actcgacccc ttggaatttc ggtggagagg agcagagggtt gtcctggcgt 300
ggtttaggta gtgtgagagg ggtacccggg gatcttgcta ccagtggaac agccactaag 360
gattctgcag tgagagcaga gggccagcta agtgggtactc tcccagagac tgtctgactc 420
acgccacccc ctccaccttg gacacaggac gctgtggttt ctgagccagg tacaatgact 480
cctttcggtg agtgagctgg aagctgtaca ctgcccaggc aaagcgtccg ggcagcgtag 540
gcgggcgact cagatcccag ccagtggact tagcccctgt ttgctcctcc gataactggg 600
gtgaccttgg ttaatatcca ccagcagcct ccccgttgcc ccctctggat ccaactgctta 660
aatacggacg aggacagggc cctgtctcct cagcttcagg caccaccact gacctgggac 720
agtgaatgat cccctgatc tgcggcc 747

<210> 68
<211> 576
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 68
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gtttgctctg gttaataatc tcaggagcac aaacattcct ggaggcagga gaagaaatca 120

acatcctgga cttatcctct gggcctctcg taccgggga tcttgctacc agtgaacag	180
ccactaagga ttctgcagtg agagcagagg gccagctaag tgggtactctc ccagagactg	240
tctgactcac gccaccccct ccaccttgga cacaggacgc tgtgggtttct gagccaggta	300
caatgactcc tttcggttaag tgcagtggaa gctgtacact gcccaggcaa agcgtccggg	360
cagcgtaggc gggcgactca gatcccagcc agtggactta gcccctgttt gtcctccga	420
taactgggggt gaccttggtt aatattcacc agcagcctcc cccgttgccc ctctggatcc	480
actgcttaaa tacggacgag gacagggccc tgtctctca gcttcaggca ccaccactga	540
cctgggacag tgaatgatcc ccctgatctg cggccg	576

<210> 69

<211> 898

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 69

caggctcaga ggcacacagg agtttctggg ctcaccctgc ccccttcaa cccctcagtt	60
cccatcctcc agcagctggt tgtgtgctgc ctctgaagtc cacactgaac aaacttcagc	120
ctactcatgt ccctaaaatg ggcaaacatt gcaagcagca aacagcaaac acacagccct	180
ccctgcctgc tgaccttgga gctggggcag aggtcagaga cctctctggg cccatgccac	240
ctccaacatc cactcgacct cttggaattt cgggtggagag gagcagaggt tgtcctggcg	300
tggtttaggt agtgtgagag gggggttaat ttttaaaaag cagtcaaaag tccaagtggc	360
ccttgcgagc atttactctc tctgtttgct ctggttaata atctcaggag cacaacatt	420
cctggaggca ggagaagaaa tcaacatcct ggacttatcc tctgggcctc tctaccggg	480
gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga gggccagcta	540
agtgggtactc tcccagagac tgtctgactc acgccacccc ctccaccttg gacacaggac	600
gctgtggttt ctgagccagg tacaatgact cctttcggtg agtgcagtgg aagctgtaca	660
ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact	720
tagcccctgt ttgctcctcc gataactggg gtgaccttgg ttaatattca ccagcagcct	780
ccccgttgc ccctctggat ccactgctta aatacggacg aggacagggc cctgtctcct	840

cagcttcagg caccaccact gacctgggac agtgaatgat ccccctgata tgcggccg 898

<210> 70

<211> 898

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 70

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acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc 180

tcaccctgcc cccttccaac ccctcagttc ccatacctca gcagctgttt gtgtgctgcc 240

tctgaagtcc aactgaaca aacttcagcc tactcatgtc cctaaaatgg gcaaacattg 300

caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttggag ctggggcaga 360

ggtcagagac ctctctgggc catgccacc tccaacatcc actcgacccc ttggaatttc 420

ggtaggagagg agcagagggt gtcctggcgt ggtttaggta gtgtgagagg ggtaccggg 480

gatcttgcta ccagtgaac agccactaag gattctgcag tgagagcaga gggccagcta 540

agtgggtact tcccagagac tgtctgactc acgccacccc ctccaccttg gacacaggac 600

gctgtgggtt ctgagccagg tacaatgact cttttcggtta agtgcagtgg aagctgtaca 660

ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact 720

tagcccctgt ttgctcctcc gataactggg gtgaccttg ttaatatcca ccagcagcct 780

ccccgttgc ccctctggat ccactgctta aatacggacg aggacagggc cctgtctcct 840

cagcttcagg caccaccact gacctgggac agtgaatgat ccccctgata tgcggccg 898

<210> 71

<211> 573

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 71

tgctccccg tggtcctgct ctttgtccct ctgtcctact tagactaata ttgctcttg 60

gtactgcaaa caggaaatgg gggagggaca ggaggttaat ttttaaaaag cagtcaaaag	120
tccaagtggc ccttgcgagc atttactctc tctgtttgct ctggttaata atctcaggag	180
cacaaacatt cctggaggca ggagaagaaa tcaacatcct ggacttatcc tctgggcctc	240
tcgtacccgg ggatcttgct accagtggaa cagccactaa ggattctgca gtgagagcag	300
agggccagct aagtgggtact ctcccagaga ctgtctgact cacgccaccc cctccacctt	360
ggacacagga cgctgtgggtt tctgagccag gtacaatgac tcctttcggt aagtgcagtg	420
gaagctgtac actgcccagg caaagcgctc gggcagcgta ggcgggcgac tcagatccca	480
gccagtggac ttagcccctg tttgctcctc cgataactgg ggtgaccttg gttaatatcc	540
accagcagcc tccccgttg cccctctgga tcc	573

<210> 72
 <211> 1618
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 72	
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accttgacct agtagggagg tgtttattca acacctctga ttggctcata aacaaccagt	120
ccttaaaatc atgccaggct cagaggcaca caggagtttc tgggctcacc ctgccccctt	180
ccaaccctc agttcccatc ctccagcagc tgtttgtgtg ctgcctctga agtccacact	240
gaacaaactt cagcctactc atgtccctaa aatgggcaaa cattgcaagc agcaaacagc	300
aaacacacag ccctccctgc ctgctgacct tggagctggg gcagaggcca gagacctctc	360
tgggccccatg ccacctccaa catccactcg accccttgga atttcggttg agaggagcag	420
aggttgtcct ggcgtgggtt aggtagtgtg agaggggggtt aatttttaaa aagcagtcaa	480
aagtccaagt ggcccttgcg agcatttact ctctctgttt gctctgggta ataatctcag	540
gagcacaac attcctggag gcaggagaag aaatcaacat cctggactta tcctctgggc	600
ctctcgggat tcaaattctg cttagctaac ccaatgttgt gagttaatgc ttgtctactt	660
gggcagaagt accttgcaaa attatctagg tagcatgtga tagaaccagg attcaaacc	720
agggtgtgtct gacctcaaag tgtggggact ttccactcta ctgctgctaa tttttttcta	780

aaaataatac ttccgggtgc agagtttaat cttctttgtc caaggtactg tggtaagcac	840
cttatgtaca ttgtctaagt taatccccac aacattttga gaaatcccca ttttgagata	900
ggagaactga ggctcacaat atttcagtga ctggcccaag gtcacagttg ttaaatggag	960
gagctggtat tgaaaaccag gtacgtgtgg ctctaagacc agtgtaatag ttgtgttttg	1020
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tcagtgggca atataccttac cttgaatggg ggtttctttg tttgttcctg caagaggagc	1140
acctccttgg tctaactgtg gatacaaata attaacaggt gtcagatgtc agtaccgagg	1200
gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga gggccagcta	1260
agtgggtactc tcccagagac tgtctgactc acgccacccc ctccaccttg gacacaggac	1320
gctgtgggtt ctgagccagg tacaatgact ctttccggta agtgcagtgg aagctgtaca	1380
ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact	1440
tagccccctgt ttgctcctcc gataactggg gtgaccttgg ttaatatcca ccagcagcct	1500
ccccgttgc ccctctggat ccactgctta aatacggacg aggacagggc cctgtctcct	1560
cagcttcagg caccaccact gacctgggac agtgaatgat ccccctgatc tgcggccg	1618

<210> 73

<211> 1363

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 73

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tgtgagttaa tgcttgtcta cttgggcaga agtaccttgc aaaattatct aggtagcatg	120
tgatagaacc aggattcaaa cccaggtgtg tctgacctca aagtgtgggg actttccact	180
ctactgctgc taatTTTTTT ctaaaaataa tacttccggg tgcagagttt aatcttcttt	240
gtccaaggta ctgtggtaag caccttatgt acattgtcta agttaatccc cacaacattt	300
tgagaaatcc ccattttgag ataggagaac tgaggctcac aatatttcag tgactggccc	360
aaggtcacag ttgttaaagt gaggagctgg tattgaaaac caggtacgtg tggctctaag	420
accagtgtaa tagttgtgtt ttgtttttcc ttgcttcctt ctttacttgc cttcatttct	480

agcttacact ggcattgattc atctcagtgg gcaatatcct taccttgaat ggtggtttct	540
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ggtgtcagat gtcattgcctc cccgtgttcc tgctctttgt ccctctgtcc tacttagact	660
aatatttgcc ttgggtactg caaacaggaa atgggggagg gacaggaccc agccagtgga	720
cttagcccct gtttgctcct ccgataactg gggtgacctt ggttaatat caccagcagc	780
ctccccgggt taatttttta aaagcagtca aaagtccaag tggcccttgc gagcatttac	840
tctctctgtt tgctctgggt aataatctca ggagcacaaa cattcctgga ggcaggagaa	900
gaaatcaaca tcctggactt atcctctggg cctctctgtac ccggggatct tgctaccagt	960
ggaacagcca ctaaggattc tgcagtgaga gcagagggcc agctaagtgg tactctccca	1020
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ccaggataca tgactccttt cggtaagtgc agtggaagct gtacactgcc caggcaaagc	1140
gtccgggcag cgtaggcggg cgactcagat cccagccagt ggacttagcc cctgtttgct	1200
cctccgataa ctggggtgac cttgggttaat attcaccagc agcctcccc gttgcccctc	1260
tggatccact gcttaaatac ggacgaggac agggccctgt ctctcagct tcaggcacca	1320
ccactgacct gggacagtga atgatcccc tgatctgcgg ccg	1363

<210> 74
 <211> 1484
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 74	
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gaagtacctt gcaaaattat ctaggtagca tgtgatagaa ccaggattca aaccaggtg	120
tgtctgacct caaagtgtgg ggactttcca ctctactgct gctaattttt ttctaaaaat	180
aatacttccg ggtgcagagt ttaatcttct ttgtccaagg tactgtggta agcaccttat	240
gtacattgtc taagttaatc ccacaacat tttgagaaat cccattttg agataggaga	300
actgaggctc acaatatttc agtgactggc ccaaggtcac agttgttaaa tggaggagct	360
ggtattgaaa accaggtagc tgtggctcta agaccagtgt aatagttgtg ttttgttttt	420

ccttgcttcc ttctttactt gccttcattt ctagcttaca ctggcatgat tcatctcagt	480
gggcaatata cttaccttga atggtgggtt ctttgtttgt tcctgcaaga ggagcacctc	540
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cacaggagtt tctgggctca ccctgcccc ttccaacccc tcagttccca tcctccagca	660
gctgtttgtg tgctgcctct gaagtccaca ctgaacaaac ttcagcctac tcatgtccct	720
aaaatgggca aacattgcaa gcagcaaaca gcaaacacac agccctccct gcctgctgac	780
cttggagctg gggcagaggt cagagacctc tctgggccc tgccacctcc aacatccact	840
cgaccccttg gaatttcggt ggagaggagc agaggttgtc ctggcgtggt ttaggtagt	900
tgagaggggg ttaattttta aaaagcagtc aaaagtccaa gtggcccttg cgagcattta	960
ctctctctgt ttgctctggt taataatctc aggagcacia acattcctgg aggcaggaga	1020
agaaatcaac atcctggact tctctctggt gcctctcgta cccggggatc ttgctaccag	1080
tggaacagcc actaaggatt ctgcagttag agcagagggc cagctaagtg gtactctccc	1140
agagactgtc tgactcacgc cccccctcc accttgagca caggacgctg tggtttctga	1200
gccaggtaca atgactcctt tcggtaagtg cagtgggaagc tgtacactgc ccaggcaaag	1260
cgccggggca gcgtaggcgg gcgactcaga tcccagccag tggacttagc ccctgtttgc	1320
tcctccgata actgggggtga ccttggttaa tattcaccag cagcctcccc cgttgccct	1380
ctggatccac tgcttaaata cggacgagga cagggccctg tctcctcagc ttcaggcacc	1440
accactgacc tgggacagtg aatgatcccc ctgatctgcg gccg	1484

<210> 75

<211> 903

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 75

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acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc	180
tcaccctgcc cccttccaac ccctcagttc ccacctcca gcagctgttt gtgtgctgcc	240

tctgaagtcc acactgaaca aacttcagcc tactcatgtc cctaaaatgg gcaaacattg	300
caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttggag ctggggcaga	360
ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc ttggaatttc	420
ggtaggagagg agcagagggtt gtcctggcgt ggttttaggta gtgtgagagg ggtaccgagg	480
gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga gggccagcta	540
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gctgtggttt ctgagccagg tacaatgact cttttcggtta agtgcagtgg aagctgtaca	660
ctgcccaggc aaagcgtccg ggtagcgtag gcgggtagt cagatcccag ccagtggact	720
tagccccctgt ttgctcctcc gataactggg gtgaccttgg ttaatatcca ccagcagcct	780
ccccgttgc ccctctggat ccactgctta aatacggata taaacgagga cagggccctg	840
tctcctcagc tttaggcacc accactgacc tgggacagtg aatgatcccc ctgatctgcg	900
gcc	903

<210> 76

<211> 933

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 76

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acatcctgga cttatcctct gggcctctct tattgatatt ccaggctcag aggcacacag	180
gagtttctgg gtcaccctg cccccttcca acccctcagt tccatcctc cagcagctgt	240
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ccctccacct tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcctttcgg	660
taagtgcagt ggaagctgta cactgcccag gcaaagcgtc cgggcagcgt aggcgggcga	720
ctcagatccc atataaagcc agtggactta gcccctgttt gctcctccga taactgggggt	780
gaccttggtt aatattcacc agcagcctcc ccctattgat tgttgcccct ctggatccac	840
tgcttaaata cggacgagga cagggccctg tctcctcagc ttcaggcacc accactgacc	900
tgggacagtg aatgatcccc ctgatctgcg gcc	933

<210> 77

<211> 943

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 77

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acatcctgga cttatcctct gggcctctct tattgatatt ccaggctcag aggcacacag	180
gagtttctgg gtcaccctg cccctttcca acccctcagt tcccatcctc cagcagctgt	240
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ccttggaatt tcggtggaga ggagcagagg ttgtcctggc gtggtttagg tagtgtgaga	480
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tcacgccacc ccctccacct tggacacagg acgctgtggt ttctgagcca ggtacaatga	660
ctcctttcgg taagtgcagt ggaagctgta cactgcccag gcaaagcgtc cgggcagcgt	720
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ctggatccac tgcttaaata cggacgagga cagggccctg tctcctcagc ttcaggcacc	900
accactgacc tgggacagtg aatgatcccc ctgatctgcg gcc	943

<210> 78
<211> 913
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 78
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acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc 180
tcaccctgcc cccttccaac ccctcagttc ccatactcca gcagctgttt gtgtgctgcc 240
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caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttggag ctggggcaga 360
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gggccagcta agtggtactc tcccagagac tgtctgactc acgccacccc ctccaccttg 600
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aagctgtaca ctgcccaggc aaagcgtccg ggcagcgtag gcgggagcact cagatcccat 720
ataaagccag tggacttagc ccctgtttgc tcctccgata actgggggtga ccttggttaa 780
tattcaccag cagcctcccc cgttgcccct ctggatccac tgcttaaata cggacgagga 840
cagggccctg tctcctcagc ttcaggcacc accactgacc tgggacagtg aatgatcccc 900
ctgatctgcg gcc 913

<210> 79
<211> 915
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 79
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acatcctgga cttatcctct gggcctctct tattgatatt ccaggctcag aggcacacag	180
gagtttctgg gtcaccctg cccccttcca acccctcagt tcccatcctc cagcagctgt	240
ttgtgtgctg cctctgaagt ccacactgaa caaacttcag cctactcatg tccctaaaat	300
gggcaaacat tgcaagcagc aaacagcaaa cacacagccc tccctgcctg ctgaccttgg	360
agctggggca gaggtcagag acctctctgg gcccatgcc a cctccaacat ccactcgacc	420
ccttggaatt tcggtggaga ggagcagagg ttgtcctggc gtggtttagg tagtgtgaga	480
ggggtacccg gggatcttgc taccagtgga acagccacta aggattctgc agtgagagca	540
gagggccagc taagtggtag tctcccagag actgtctgac tcacgccacc ccctccacct	600
tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcctttcgg taagtgcagt	660
ggaagctgta cactgcccag gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc	720
atataaagcc agtggactta gcccctgttt gctcctccga taactggggg gaccttggtt	780
aatattcacc agcagcctcc cccgttgccc ctctggatcc actgcttaaa tacggacgag	840
gacagggccc tgtctcctca gcttcaggca ccaccactga cctgggacag tgaatgatcc	900
ccctgatctg cgcc	915

<210> 80

<211> 909

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 80

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acatcctgga cttatcctct gggcctctct tattgatatt ccaggctcag aggcacacag	180
gagtttctgg gtcaccctg cccccttcca acccctcagt tcccatcctc cagcagctgt	240
ttgtgtgctg cctctgaagt ccacactgaa caaacttcag cctactcatg tccctaaaat	300
gggcaaacat tgcaagcagc aaacagcaaa cacacagccc tccctgcctg ctgaccttgg	360
agctggggca gaggtcagag acctctctgg gcccatgcc a cctccaacat ccactcgacc	420

ccttgaatt tcggtggaga ggagcagagg ttgtcctggc gtggttttagg tagtgtgaga	480
ggggtacccg gggatcttgc taccagtgga acagccacta aggattctgc agtgagagca	540
gagggccagc taagtggtag tctcccagag actgtctgac tcacgccacc ccctccacct	600
tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcctttcgg taagtgcagt	660
ggaagctgta cactgcccag gcaaagcgtc cgggcagcgt aggcgggcga ctcagatccc	720
agccagtgga cttagcccct gtttgctcct ccgataactg ggggtgacctt ggttaatat	780
caccagcagc ctccccggt gccctctggt atccactgct taaatacggg cgaggacagg	840
gccctgtctc ctcagcttca ggcaccacca ctgacctggg acagtgaatg atccccctga	900
tctgcggcc	909

<210> 81
 <211> 907
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 81	
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gtttgctctg gttaataatc tcaggagcac aaacattcct ggaggcagga gaagaaatca	120
acatcctgga cttatcctct gggcctctct ggcccttgcc aggctcagag gcacacagga	180
gtttctgggc tcaccctgcc cccttccaac ccctcagttc ccatcctcca gcagctgttt	240
gtgtgctgcc tctgaagtcc aactgaaca aacttcagcc tactcatgtc ctaaaatgg	300
gcaaacattg caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttgag	360
ctggggcaga ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc	420
ttggaatttc ggtggagagg agcagagggt gtcctggcgt ggtttaggta gtgtgagagg	480
ggtacccggg gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga	540
gggccagcta agtggtagtc tcccagagac tgtctgactc acgccacccc ctccaccttg	600
gacacaggac gctgtggttt ctgagccagg tacaatgact cctttcggta agtgcagtgg	660
aagctgtaca ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag	720
ccagtggact tagcccctgt ttgctcctcc gataactggg gtgaccttgg ttaatatcca	780

ccagcagcct cccccgttgc ccctctggat ccactgctta aatacggacg aggacagggc	840
cctgtctcct cagcttcagg caccaccact gacctgggac agtgaatgat ccccctgatc	900
tgcggcc	907

<210> 82
 <211> 909
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 82	
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gtttgctctg gttaataatc tcaggagcac aaacattcct ggaggcagga gaagaaatca	120
acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc	180
tcaccctgcc cccttccaac ccctcagttc ccaccccca gcagctgttt gtgtgctgcc	240
tctgaagtcc aactgaaca aacttcagcc tactcatgtc cctaaaatgg gcaaacattg	300
caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttgag ctggggcaga	360
ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc ttggaatttc	420
ggtggagagg agcagagggt gtcctggcgt ggtttaggta gtgtgagagg gttattgata	480
ttcgtacccg gggatcttgc taccagtgga acagccacta aggattctgc agtgagagca	540
gagggccagc taagtggtag tctcccagag actgtctgac tcacgccacc ccctccacct	600
tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcttttcgg taagtgcagt	660
ggaagctgta cactgcccag gcaaagcgtc cgggcagcgt aggcgggcga ctcatatccc	720
agccagtgga cttagcccct gtttgctcct ccgataactg gggtgacctt ggttaatatt	780
caccagcagc ctccccggt gccctctggt atccactgct taaatacggc cgaggacagg	840
gccctgtctc ctacagttca ggcaccacca ctgacctggg acagtgaatg atccccctga	900
tctgcggcc	909

<210> 83
 <211> 907
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 83

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gtttg	ctctg	gttaata	atc	tcagg	agcac	aaacatt	ccct	ggagg	cagga	gaagaa	atca	120
acatc	ctgga	cttatc	ctct	gggcct	ctcc	aggct	cagag	gcacac	cagga	gtttct	gggc	180
tcacc	ctgcc	ccctt	ccaac	ccctc	agttc	ccatc	ctcca	gcagct	gttt	gtgtg	ctgcc	240
tctga	agtcc	acact	gaaca	aactt	cagcc	tactc	atgtc	cctaaa	atgg	gcaaac	attg	300
caagc	agcaa	acagca	aaaca	cacag	ccctc	cctgc	ctgct	gacct	tgag	ctgggg	caga	360
ggtcag	agac	ctctct	gggc	ccatg	ccacc	tccaac	atcc	actcg	acccc	ttgga	atttc	420
ggagg	agagg	gtcct	ggcgt	ggttt	taggt	gtgtg	agagg	gtggc	ccctg			480
cgtacc	cggg	gatct	tgcta	ccagt	ggaac	agccac	taag	gattc	ctgc	ag	agcaga	540
gggcc	agcta	agtgg	tactc	tccc	agagac	tgtct	gactc	acgcc	acccc	ctccac	cttg	600
gacac	aggac	gctgt	ggttt	ctgag	ccagg	tacaat	gact	ccttt	cggta	agtgc	agtg	660
aagct	gtaca	ctgccc	aggc	aaagc	gtccg	ggcag	cgtag	gcggg	cgact	cagat	cccag	720
ccagt	ggact	tagccc	ctgt	ttgct	cctcc	gataa	ctggg	gtgac	cttg	ttaat	attca	780
ccagc	agcct	ccccg	ttgc	ccctc	ctggat	ccact	gctta	aatac	ggacg	aggac	agggc	840
cctgt	ctcct	cagct	tcagg	caccac	cact	gacct	gggac	agtga	atgat	cccc	ctgatc	900
tgcg	gcc											907

<210> 84

<211> 907

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<400> 84

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gtttg	ctctg	gttaata	atc	tcagg	agcac	aaacatt	ccct	ggagg	cagga	gaagaa	atca	120
acatc	ctgga	cttatc	ctct	gggcct	ctcc	aggct	cagag	gcacac	cagga	gtttct	gggc	180
tcacc	ctgcc	ccctt	ccaac	ccctc	agttc	ccatc	ctcca	gcagct	gttt	gtgtg	ctgcc	240

tctgaagtcc acactgaaca aacttcagcc tactcatgtc cctaaaatgg gcaaacattg	300
caagcagcaa acagcaaaca catggccctt gccagccctc cctgcctgct gaccttggag	360
ctggggcaga ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc	420
ttggaatttc ggtggagagg agcagaggtt gtcctggcgt ggtttaggta gtgtgagagg	480
ggtacccggg gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga	540
gggccagcta agtgggtactc tcccagagac tgtctgactc acgccacccc ctccaccttg	600
gacacaggac gctgtggttt ctgagccagg tacaatgact cctttcggta agtgcagtgg	660
aagctgtaca ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag	720
ccagtggact tagcccctgt ttgctcctcc gataactggg gtgaccttgg ttaatatcca	780
ccagcagcct cccccgttgc ccctctggat ccactgctta aatacggacg aggacagggc	840
cctgtctcct cagcttcagg caccaccact gacctgggac agtgaatgat ccccctgatc	900
tgcggcc	907

<210> 85
 <211> 913
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic Polynucleotide

<400> 85	
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gtttgctctg gttaataatc tcaggagcac aaacattcct ggaggcagga gaagaaatca	120
acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc	180
tcaccctgcc cccttccaac ccctcagttc ccatcctcca gcagctgttt gtgtgctgcc	240
tctgaagtcc acactgaaca aacttcagcc tactcatgtc cctaaaatgg gcaaacattg	300
caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttggag ctggggcaga	360
ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc ttggaatttc	420
ggtggagagg agcagaggtt gtcctggcgt ggtttaggta gtgtgagagg ggtacccggg	480
gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga gggccagcta	540
agtgggtactc tcccagagac tgtctgactc acgccacccc ctccaccttg gacacaggac	600

gctgtggttt ctgagccagg tacaatgact cctttcggtg agtgacgtgg aagctgtaca	660
ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact	720
tagcccctgt ttgctcctcc gataactggg gtgaccttgg ttaatatcca ccagcagcct	780
ccccctatat aaatattgat tgttgcccct ctggatccac tgcttaaata cggacgagga	840
cagggccctg tctcctcagc ttcaggcacc accactgacc tgggacagtg aatgatcccc	900
ctgatctgcg gcc	913

<210> 86
 <211> 919
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 86	
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gtttgctctg gttataatc tcaggagcac aaacattcct ggaggcagga gaagaaatca	120
acatcctgga cttatcctct gggcctctct tattgatatt ccaggctcag aggcacacag	180
gagtttctgg gtcaccctg ccccttcca acccctcagt tccatcctc cagcagctgt	240
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gggcaaacat tgcaagcagc aaacagcaaa cacacagccc tccctgcctg ctgaccttgg	360
agctggggca gaggtcagag acctctctgg gcccatgcc cctccaacat ccactcgacc	420
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agtgagagca gagggccagc taagtgggtac tctcccagag actgtctgac tcacgccacc	600
ccctccacct tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcctttcgg	660
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ctcagatccc agccagtgga cttagcccct gtttgctcct ccgataactg gggtgacctt	780
ggttaatatt caccagcagc ctccccgtt gccctctgg atccactgct taaatacgga	840
cgaggacagg gccctgtctc ctcagcttca ggcaccacca ctgacctggg acagtgaatg	900
atccccctga tctgcggcc	919

<210> 87
<211> 919
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 87
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gcaaacattg caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttgag 360
ctggggcaga ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc 420
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agtgagagca gagggccagc taagtggtag tctccagag actgtctgac tcacgccacc 600
ccctccacct tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcttttcgg 660
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atccccctga tctgcggcc 919

<210> 88
<211> 915
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 88
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gtttgctctg gttaataatc tcaggagcac aaacattcct ggaggcagga gaagaaatca	120
acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc	180
tcaccctgcc cccttccaac ccctcagttc ccatcctcca gcagctgttt gtgtgctgcc	240
tctgaagtcc aactgaaca aacttcagcc tactcatgtc cctaaaatgg gcaaacattg	300
caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttggag ctggggcaga	360
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gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga gggccagcta	540
agtggtagct tcccagagac tgtctgactc acgccacccc ctccaccttg gacacaggac	600
gctgtgggtt ctgagccagg tacaatgact ctttctggta agtgcagtgg aagctgtaca	660
ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccat ataaagccag	720
tggacttagc ccctgtttgc tcctccgata actggggtga ccttggttaa tattcaccag	780
cagcctcccc cttattgata ttcgttgccc ctctggatcc actgcttaaa tacggacgag	840
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ccctgatctg cgcc	915

<210> 89
 <211> 909
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 89	
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gagaagaaat caacatcctg gacttatcct ctgggcctct ccaggctcag aggcacacag	180
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ccttgaatt tcggtggaga ggagcagagg ttgtcctggc gtggttttagg tagtgtgaga	480
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tggacacagg acgctgtggt ttctgagcca ggtacaatga ctcctttcgg taagtgcagt	660
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caccagcagc ctccccggtt gcccctctgg atccactgct taaatacggg cgaggacagg	840
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tctgcggcc	909

<210> 90
 <211> 907
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 90	
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gaagaaatca acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga	180
gtttctgggc tcaccctgcc ccctccaac ccctcagttc ccatcctcca gcagctgttt	240
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gcaaacattg caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttggag	360
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aagctgtaca ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag	720
ccagtggact tagcccctgt ttgctcctcc gataactggg gtgaccttgg ttaatatcca	780

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cctgtctcct cagcttcagg caccaccact gacctgggac agtgaatgat ccccctgac	900
tcgaggcc	907

<210> 91
 <211> 907
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Polynucleotide

<400> 91	
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acatcctgga cttatcctct gggcctctcc aggctcagag gcacacagga gtttctgggc	180
tcaccctgcc cccttccaac ccctcagttc ccacctcca gcagctgttt gtgtgctgcc	240
tctgaagtcc aactgaaca aacttcagcc tactcatgtc ctaaaatgg gcaaacattg	300
caagcagcaa acagcaaaca cacagccctc cctgcctgct gaccttgag ctggggcaga	360
ggtcagagac ctctctgggc ccatgccacc tccaacatcc actcgacccc ttggaatttc	420
ggtaggagagg agcagagggt gtcctggcgt ggtttaggta gtgtgagagg ggtacccggg	480
gatcttgcta ccagtggaac agccactaag gattctgcag tgagagcaga gggccagcta	540
agtggtactc tcccagagac tgtctgactc acgccacccc ctccaccttg gacacaggac	600
gctgtggttt ctgagccagg tacaatgact cttttcggtta agtgcagtgg aagctgtaca	660
ctgcccaggc aaagcgtccg ggcagcgtag gcgggcgact cagatcccag ccagtggact	720
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ccccctttat tgatattcgc ccctctggat ccactgctta aatacggacg aggacagggc	840
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tcgaggcc	907

<210> 92
 <211> 322
 <212> DNA
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