

FIGURE 1A

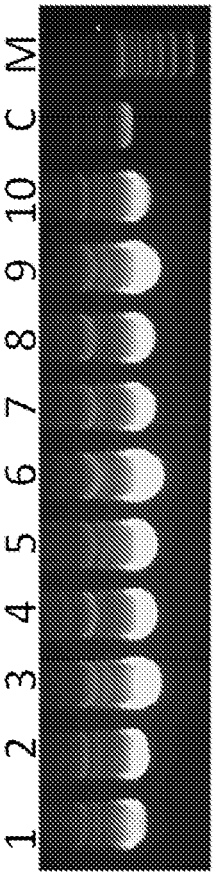


FIGURE 1B

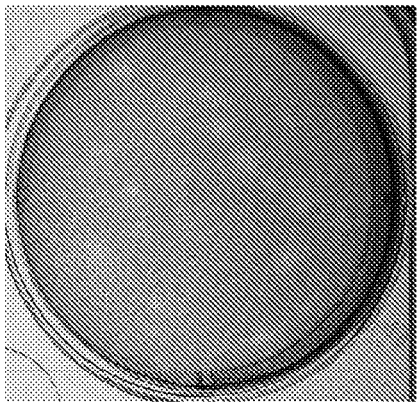


FIGURE 2A

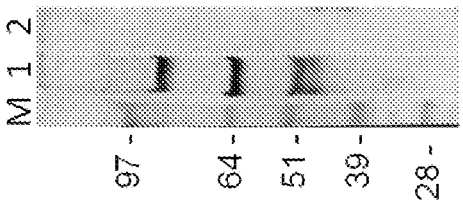


FIGURE 2B

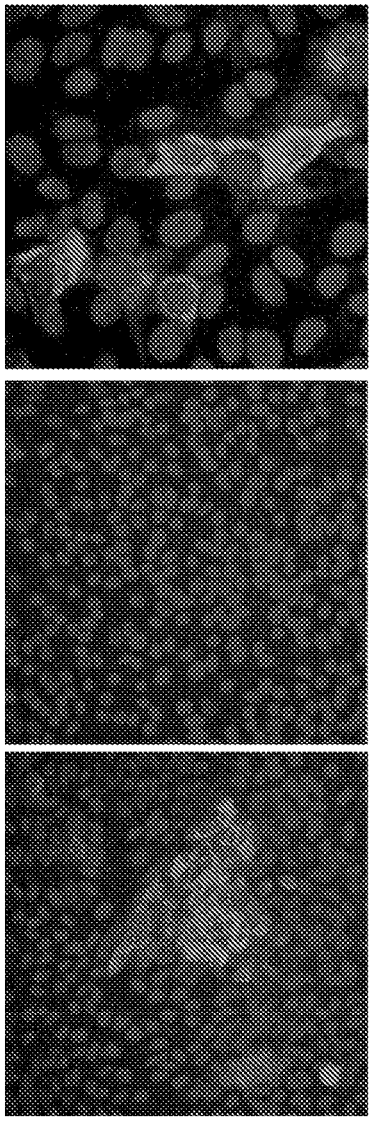


FIGURE 2C

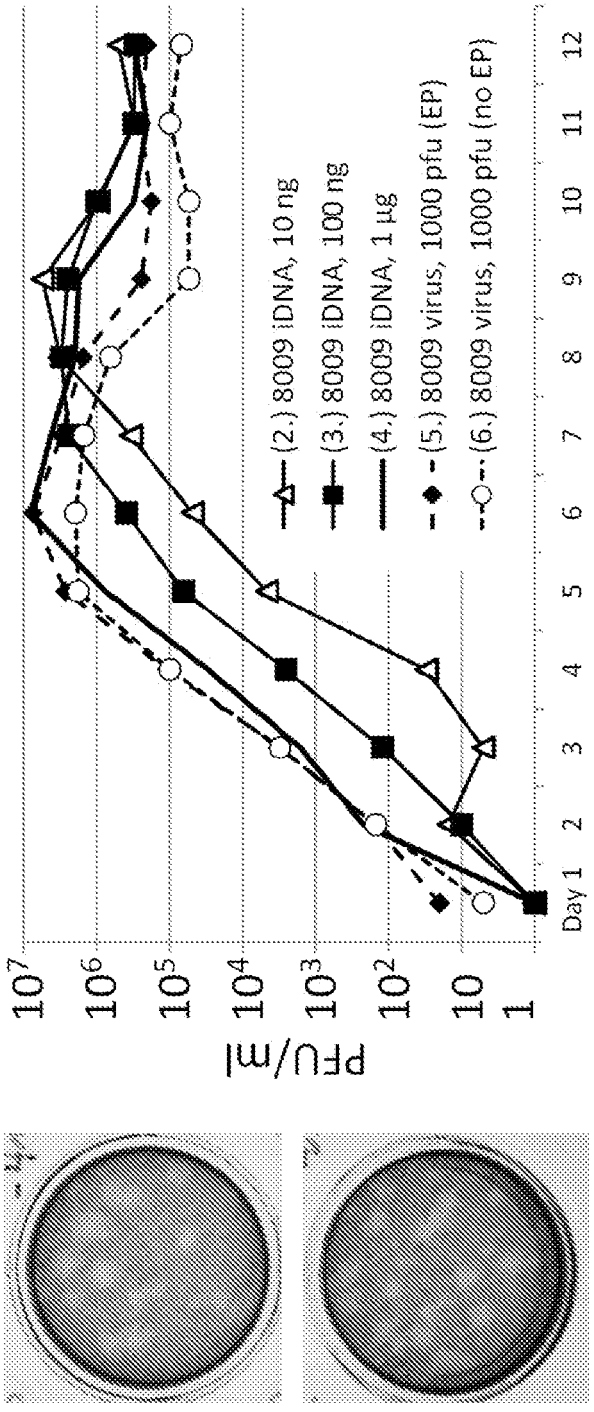


FIGURE 3B

FIGURE 3A

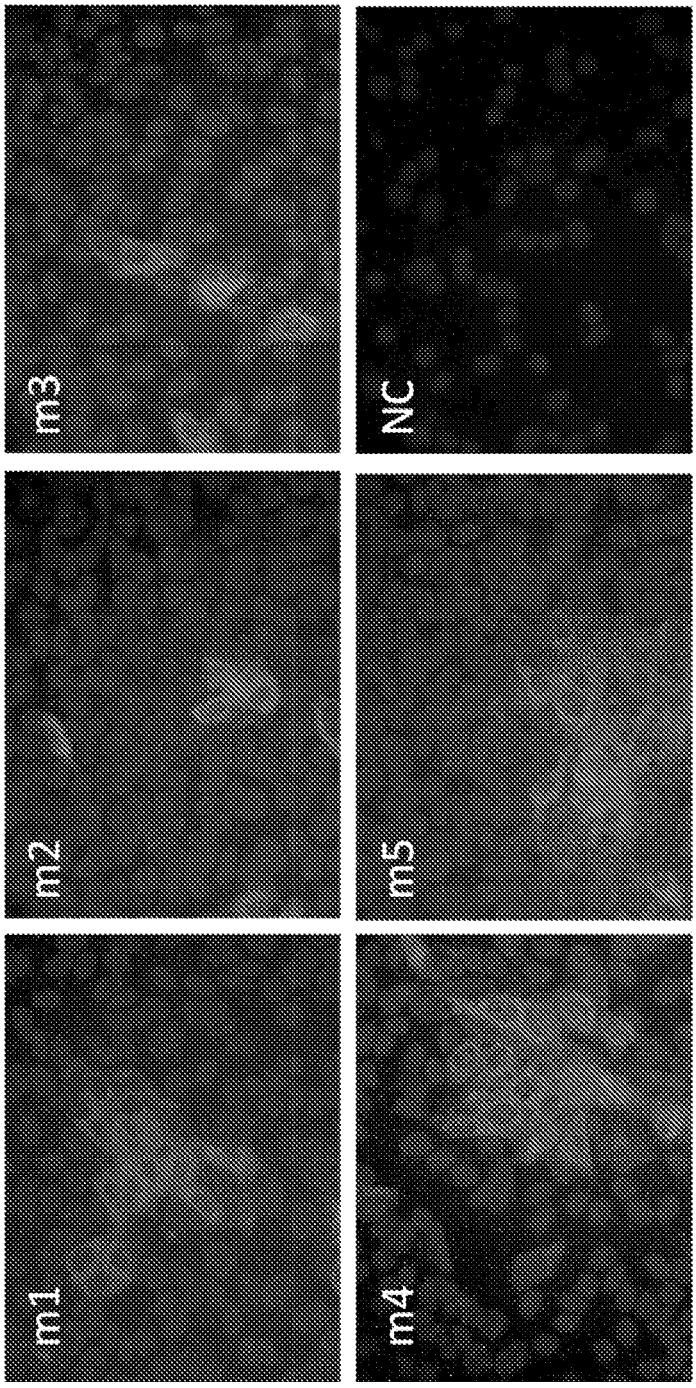


FIGURE 4

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   1 TCGCGCGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG
  51 GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG
 101 TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG
 151 CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGAAATA
 201 CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGGCGCC ATTCGCCATT
 251 CAGGCTGCGC AACTGTTGGG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT
 301 TACGCCAGCT GGCGAAAGGG GGATGTGCTG CAAGGCGATT AAGTTGGGTA
 351 ACGCCAGGGT TTTCCCAGTC ACGACGTTGT AAAACGACGG CCAGTGAATT
 401 CGGCGCGCCT GACATTGATT ATTGACTAGT TATTAATAGT AATCAATTAC
 451 GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT ACATAACTTA
 501 CGGTAAATGG CCCGCCTGGC TGACCGCCCA ACGACCCCCG CCCATTGACG
 551 TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA CTTTCCATTG
 601 ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG GCAGTACATC
 651 AAGTGTATCA TATGCCAAGT ACGCCCCCTA TTGACGTCAA TGACGGTAAA
 701 TGGCCCGCCT GGCATTATGC CCAGTACATG ACCTTATGGG ACTTTCCTAC
 751 TTGGCAGTAC ATCTACGTAT TAGTCATCGC TATTACCATG GTGATGCGGT
 801 TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC ACGGGGATTT
 851 CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTTTT GGCACCAAAA
 901 TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCCGCCCCA TTGACGCAAA
 951 TGGGCGGTAG GCGTGTACGG TGGGAGGTCT ATATAAGCAG AGCTCTCTGG
1001 CTAACTAGAG agaagtttat ctgtgtgaac ttcttggctt agtatcgtag
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1101 taaccatgac taaaaaacca ggagggcccg gtaaaaaccg ggctatcaat
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1201 ggtagtaatg agcttgttgg acggcagagg gccagtacgt ttcgtgctgg
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1301 tcaggccgat ggaaagcagt ggaaaagagt gtggcaatga aacatcttac
1351 tagtttcaaa cgagaacttg gaacactcat tgacgccgtg aacaagcggg
1401 gcagaaagca aaacaaaaga ggagGTAAGT ATCAAGGTTA CAAGACAGGT
1451 TTAAGGAGAC CAATAGAAAC TGGGCTTGTC GAGACAGAGA AGACTCTTGC
1501 GTTTCTGATA GGCACCTATT GGTCTTACTG ACATCCACTT TGCCTTTCTC
1551 TCCACAGgaa atgaaggctc aatcatgtgg ctcgcgagct tggcagttgt
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1851 tatggacggt gcacgcggac caggcattcc aagcgaagca ggagatccgt
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2051 gcttggcagt aacaacggtc aacgcgtggt atttaccatc ctcctgctgt
2101 tggtcgctcc ggcttacagt tttaattgtc tgggaatggg caatcgtgac
2151 ttcatagaag gagccagtgg agccacttgg gtggacttgg tgctagaagg
2201 agacagctgc ttgacaatca tggcaaacga caaaccaaca ttggacgtcc
```

FIGURE 5A

2251 gcatgattaa catcgaagct agccaacttg ctgaggtcag aagttactgc
2301 tatcatgctt cagtcactga catctcgacg gtggctcggt gccccacgac
2351 tggagaagcc cacaacgaga agcgagctga tagtagctat gtgtgcaaac
2401 aaggcttcac tgaccgtggg tggggcaacg gatgtggatt tttcgggaag
2451 ggaagcattg acacatgtgc aaaattctcc tgcaccagta aagcgattgg
2501 gagaacaatc cagccagaaa acatcaaata caaagttggc atttttgtgc
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2651 cctcaaactt ggtgactacg gagaagtcac actggactgt gagccaagga
2701 gtggactgaa cactgaagcg ttttacgtca tgaccgtggg gtcaaagtca
2751 tttctggtcc atagggagtg gtttcatgac ctcgctctcc cctggacgtc
2801 cccttcgagc acagcgtgga gaaacagaga actcctcatg gaatttgaag
2851 gggcgcacgc cacaaaacag tccgttgttg ctcttgggtc acaggaagga
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3001 tggctctgaa aggcacaacc tatggcatgt gtacagaaaa attctcgttc
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3301 accattggca caaagctgga agcacgctgg gcaaggcctt ttcaacaact
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3951 agtggacctc agtgtggttg tgaacaagcc cgtgggaaga tatcgctcag
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4501 gacacacacc ctttggggag atgatgttga ggaaagtgaa ctcatcattc
4551 cgcacaccat agccggacca aaaagcaagc acaatcggag ggaagggtat

FIGURE 5B

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4751 tggtgctgtc gcagttgctc ccttccgccc ctacgattcc ggacagaaaa
4801 tggctgctgg tacggaatgg aaatcagacc tgttatgcat gatgaaacaa
4851 cactcgtcag atcacaggtt catgctttca aaggtgaaat ggttgaccct
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4951 caagaggtgg acggccagat tgaccattcc tgcggttttg ggggtcctac
5001 ttgtgctgat gcttgggggt atcacttaca ctgatttggc gaggtatgtg
5051 gtgctagtcg ctgctgcttt cgcagaggcc aacagtggag gagacgtcct
5101 gcaccttgct ttgattgctg tttttaagat ccaaccagca tttttagtga
5151 tgaacatgct tagcacgaga tggacgaacc aagaaaacgt ggttctggtc
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5301 tcaccttccc cacaacctcc tccgtcacca tgccagtctt agcgcttcta
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6851 attgctacca aggtggaatt aggggaggca gcagccatct ttatgacagc
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```

FIGURE 5C

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6951 atgatttgca agatgagata ccagacaggg catggagcag tggatacgaa
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7051 aatggggaat gagattgcaa tgtgcctcca aagagcgggg aaaaaggtca
7101 tccaactcaa ccgcaagtcc tatgacacag aatacccaaa atgtaagaat
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7301 accagtgcaa gcgcagctca acggaggggc agagtaggca gaaaccccaa
7351 tcaagttgga gatgaatacc actatggggg ggctaccagt gaagatgaca
7401 gtaacctagc ccattggaca gaggcaaaga tcatgttaga caacatacac
7451 atgcccaatg gactggtggc ccagctctat ggaccagaga gggaaaaggc
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7701 cccggatggg tgagaggaaa atcctcaagc cgagatggct tgatgcaaga
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8951 agctacctgg ctggaggctc cattgcttgg actctcatca agaacgctga
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9101 cggagagagg ccataatcga ggtggaccgc actgaagcac gcagggccag
9151 acgtgaaaat aacatagtgg gaggacatcc ggtttcgcga ggctcagcaa
9201 aactccgttg gctcgtggag aaaggatttg tctcgccaat aggaaaagtc
9251 attgatctag ggtgtgggcg tggaggatgg agctactacg cagcaaccct
```

FIGURE 5D

```
 9301 gaagaaggtc caggaagtca gaggatacac gaaaggtggg gcgggacatg
 9351 aagaaccgat gctcatgcag agctacggct ggaacctggt ctccctgaag
 9401 agtggagtgg acgtgtttta caaaccttca gagcccagtg ataccctgtt
 9451 ctgtgacata ggggaatcct ccccaagtcc agaagtagaa gaacaacgca
 9501 cactacgcgt cctagagatg acatctgact ggttgcaccg aggacctaga
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FIGURE 5E

11651 gtcattggga aagaaaatta tgttgactac atgacctcac tcaggagata
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11851 gcgtctcagt cccaggagga ctgggttaac aaatctgaca acagaaagtg
11901 agaaagccct cagaaccgtc tcggaagtag gtccctgctc actggaagtt
11951 gaaagaccaa cgtcaggcca caaatttgtg ccactccgct agggagtgcg
12001 gcctgcgcag ccccaggagg actgggttac caaagccgtt gaggccccca
12051 cggcccaagc ctcgtctagg atgcaataga cgaggtgtaa ggactagagg
12101 ttagaggaga ccccgtggaa acaacaacat gcggcccaag ccccctcgaa
12151 gctgtagagg aggtggaagg actagaggtt agaggagacc ccgcatttgc
12201 atcaaacagc atattgacac ctgggaatag actgggagat cttctgctct
12251 atctcaacat cagctactag gcacagagcg ccgaagtatg tagctggtgg
12301 tgaggaagaa cacaggatct CTCGAGtggg tcggcatggc atctccacct
12351 cctcgcggtc cgacctgggc atccgaagga ggacgcacgt ccactcggat
12401 ggctaaggga gagccacgag ctcctcgaca gatcataatc agccatacca
12451 catttgtaga ggttttactt gctttaaaaa acctcccaca cctccccctg
12501 aacctgaaac ataaaatgaa tgcaattgtt gttgttaact tgtttattgc
12551 agcttataat ggttacaaat aaagcaatag catcacaaat ttcacaaata
12601 aagcattttt ttcactgcat tctagttgtg gtttgtccaa actcatcaag
12651 atgtatacAA GCTTGGTGTA ATCATGGTCA TAGCTGTTTC CTGTGTGAAA
12701 TTGTTATCCG CTCACAATTC CACACAACAT ACGAGCCGGA AGCATAAAGT
12751 GTAAAGCCTG GGGTGCCTAA TGAGTGAGCT AACTCACATT AATTGCGTTG
12801 CGCTCACTGC CCGCTTTCCA GTCGGGAAAC CTGTCGTGCC AGCTGCATTA
12851 ATGAATCGGC CAACGCGCGG GGAGAGGCGG TTTGCGTATT GGGCGCTCTT
12901 CCGCTTCCTC GCTCACTGAC TCGCTGCGCT CGGTCGTTCG GCTGCGGCGA
12951 GCGGTATCAG CTCACTCAAA GGCGGTAATA CGGTTATCCA CAGAATCAGG
13001 GGATAACGCA GGAAAGAACA TGTGAGCAAA AGGCCAGCAA AAGGCCAGGA
13051 ACCGTAAAAA GGCCGCGTTG CTGGCGTTTT TCCATAGGCT CCGCCCCCCT
13101 GACGAGCATC ACAAAAATCG ACGCTCAAGT CAGAGGTGGC GAAACCCGAC
13151 AGGACTATAA AGATACCAGG CGTTTCCCCC TGGAAGCTCC CTCGTGCGCT
13201 CTCCTGTTCC GACCCTGCCG CTTACCGGAT ACCTGTCCGC CTTTCTCCCT
13251 TCGGGAAGCG TGGCGCTTTC TCATAGCTCA CGCTGTAGGT ATCTCAGTTC
13301 GGTGTAGGTC GTTCGCTCCA AGCTGGGCTG TGTGCACGAA CCCCCCGTTC
13351 AGCCCGACCG CTGCGCCTTA TCCGGTAACT ATCGTCTTGA GTCCAACCCG
13401 GTAAGACACG ACTTATCGCC ACTGGCAGCA GCCACTGGTA ACAGGATTAG
13451 CAGAGCGAGG TATGTAGGCG GTGCTACAGA GTTCTTGAAG TGGTGGCCTA
13501 ACTACGGCTA CACTAGAAGA ACAGTATTTG GTATCTGCGC TCTGCTGAAG
13551 CCAGTTACCT TCGGAAAAAG AGTTGGTAGC TCTTGATCCG GCAAACAAAC
13601 CACCGCTGGT AGCGGTGGTT TTTTTGTTTG CAAGCAGCAG ATTACGCGCA
13651 GAAAAAAAGG ATCTCAAGAA GATCCTTTGA TCTTTTCTAC GGGGTCTGAC
13701 GCTCAGTGGA ACGAAAACTC ACGTTAAGGG ATTTTGGTCA TGAGATTATC
13751 AAAAAGGATC TTCACCTAGA TCCTTTTAAA TTAAAAATGA AGTTTTAAAT
13801 CAAGCCCAAT CTGAATAATG TTACAACCAA TTAACCAATT CTGATTAGAA
13851 AAACTCATCG AGCATCAAAT GAAACTGCAA TTTATTCATA TCAGGATTAT
13901 CAATACCATA TTTTTGAAAA AGCCGTTTCT GTAATGAAGG AGAAAACTCA
13951 CCGAGGCAGT TCCATAGGAT GGCAAGATCC TGGTATCGGT CTGCGATTCC

FIGURE 5F

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14001 GACTCGTCCA ACATCAATAC AACCTATTAA TTTCCCCTCG TCAAAAATAA
14051 GGTTATCAAG TGAGAAATCA CCATGAGTGA CGACTGAATC CGGTGAGAAT
14101 GGCAAAAGTT TATGCATTTC TTTCCAGACT TGTTCAACAG GCCAGCCATT
14151 ACGCTCGTCA TCAAAATCAC TCGCATCAAC CAAACCGTTA TTCATTCGTG
14201 ATTGCGCCTG AGCGAGACGA AATACGCGAT CGCTGTTAAA AGGACAATTA
14251 CAAACAGGAA TCGAATGCAA CCGGCGCAGG AACACTGCCA GCGCATCAAC
14301 AATATTTTCA CCTGAATCAG GATATTCTTC TAATACCTGG AATGCTGTTT
14351 TTCCGGGGAT CGCAGTGGTG AGTAACCATG CATCATCAGG AGTACGGATA
14401 AAATGCTTGA TGGTCGGAAG AGGCATAAAT TCCGTCAGCC AGTTTAGTCT
14451 GACCATCTCA TCTGTAACAT CATTGGCAAC GCTACCTTTG CCATGTTTCA
14501 GAAACAACTC TGGCGCATCG GGCTTCCCAT ACAAGCGATA GATTGTCGCA
14551 CCTGATTGCC CGACATTATC GCGAGCCCAT TTATACCCAT ATAAATCAGC
14601 ATCCATGTTG GAATTTAATC GCGGCCTCGA CGTTTCCCGT TGAATATGGC
14651 TCATAACACC CCTTGTATTA CTGTTTATGT AAGCAGACAG TTTTATTGTT
14701 CATGATGATA TATTTTTATC TTGTGCAATG TAACATCAGA GATTTTGAGA
 14751 CACGGGCCAG AGCTGCA
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FIGURE 5G