```
NI.       1 atgcccgtagattcttctcataagacagctagcccacttccacctcgtaa   50
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.        1 atgcccgtagattcttctcataagacagctagcccacttccacctcgtaa   50

NI.      51 aagagcaaagacggaagaagaaaaggagcagcgtcgagtggaacgtatcc  100
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.       51 aagagcaaagacggaagaagaaaaggagcagcgtcgagtggaacgtatcc  100

NI.     101 tacgtaataggagagcggcccatgcttccagagagaagaaacgaagacac  150
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      101 tacgtaataggagagcggcccatgcttccagagagaagaaacgaagacac  150

NI.     151 gttgaatttctggaaaaccacgtcgtcgacctggaatctgcacttcaaga  200
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      151 gttgaatttctggaaaaccacgtcgtcgacctggaatctgcacttcaaga  200

NI.     201 atcagccaaagccactaacaagttgaaagaaatacaagatatcattgttt  250
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      201 atcagccaaagccactaacaagttgaaagaaatacaagatatcattgttt  250

NI.     251 caaggttggaagccttaggtggtaccgtctcagatttggatttaacagtt  300
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      251 caaggttggaagccttaggtggtaccgtctcagatttggatttaacagtt  300

NI.     301 ccggaagtcgattttcccaaatcttctgatttggaacccatgtctgatct  350
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      301 ccggaagtcgattttcccaaatcttctgatttggaacccatgtctgatct  350

NI.     351 ctcaacttcttcgaaatcggagaaagcatctacatccactcgcagatctt  400
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      351 ctcaacttcttcgaaatcggagaaagcatctacatccactcgcagatctt  400

NI.     401 tgactgaggatctggacgaagatgacgtcgctgaatatgacgacgaagaa  450
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      401 tgactgaggatctggacgaagatgacgtcgctgaatatgacgacgaagaa  450

NI.     451 gaggacgaagagttacccaggaaaatgaaagtcttaaacgacaaaaacaa  500
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      451 gaggacgaagagttacccaggaaaatgaaagtcttaaacgacaaaaacaa  500

NI.     501 gagcacatctatcaagcaggagaagttgaatgaacttccatctcctttgt  550
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      501 gagcacatctatcaagcaggagaagttgaatgaacttccatctcctttgt  550

NI.     551 catccgatttttcagacgtagatgaagaaaagtcaactctcacacattta  600
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      551 catccgatttttcagacgtagatgaagaaaagtcaactctcacacattta  600

NI.     601 aagttgcaacagcaacaacaacaaccagtagacaattatgtttctactcc  650
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      601 aagttgcaacagcaacaacaacaaccagtagacaattatgtttctactcc  650
```

FIG.17A

```
NI.     651 tttgagtcttccggaggattcagttgattttattaacccaggtaacttaa  700
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      651 tttgagtcttccggaggattcagttgattttattaacccaggtaacttaa  700

NI.     701 aaatagagtccgatgagaacttcttgttgagttcaaatactttacaaata  750
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      701 aaatagagtccgatgagaacttcttgttgagttcaaatactttacaaata  750

NI.     751 aaacacgaaaatgacaccgactacattactacagctccatcaggttccat  800
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      751 aaacacgaaaatgacaccgactacattactacagctccatcaggttccat  800

NI.     801 caatgatttttttaattcttatgacattagcgagtcgaatcggttgcatc  850
            ||||||||||||||||||||||||||||||||||||||||||||||||||
I.      801 caatgatttttttaattcttatgacattagcgagtcgaatcggttgcatc  850

NI.     851 atccagcagtgatgacggattcatctttacacattacagcaggctccatc  900
            ||||||
I.      851 atccag----------------------------------------------  855

NI.     901 ggctttttctctttgattgggggggggaaagttctgtagcagggaggcg  950

I.      856 ----------------------------------------------------  855

NI.     951 cagttcagttggcacatatcagttgacatgcatagcgatcaggtgattgc 1000

I.      856 ----------------------------------------------------  855

NI.    1001 tcttgttaactggtatgccaagtcaaccgttttcggcgtacctactactc 1050

I.      856 ----------------------------------------------------  855

NI.    1051 tactttaactcttgaattgagatgaaacaatcgcccttgttcgagacgcg 1100

I.      856 ----------------------------------------------------  855

NI.    1101 tagttaatttaagatgaatcaatttgcaacaaaagaacaaacgaaaaaga 1150

I.      856 ----------------------------------------------------  855

NI.    1151 taacagcaaacttaagtttcgtggtctgcagcaccatttaccgctaatgc 1200
                                        ||||||||||||||||||||||
I.     856 ----------------------------cagcaccatttaccgctaatgc  878

NI.    1201 atttgatttaaatgactttgtattcttccaggaatag   1237
            ||||||||||||||||||||||||||||||||||
I.      879 atttgatttaaatgactttgtattcttccaggaatag    915
```

FIG.17B

gtaaagcacgagaacttcaagacctgttctcagtctggcttctgtaagcgaaaccgagccttcgccgacgacgccgctg
cccagggctcttcttgggcctctccctacgagctggactcttcttctatccagttcaaggacggccagctgcacggcacc
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FIG.36A

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FIG.36B

cttatctggggcagtgaagtatatgttatggtaatagttacgagttagttgaacttatagatagactggactatacggctatc
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FIG.44A

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FIG.44B

cagttaccttcggaaaaagagttggtagctcttgatccggcaaacaaaccaccgctggtagcggcggttttt
tgtttgcaagcagcagattacgcgcagaaaaaaaggatctcaagaagatcctttgatcttttcttactgaacg
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gttttcttggctgccacgagcttgagcactcgagcggcaaaggcggacttgtggacgttagctcgagcttc
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FIG.44C

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FIG.45A

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FIG.45B

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FIG.45C

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FIG.46A

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FIG.46B

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FIG.46C

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FIG.47A

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FIG.47B

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FIG.47C