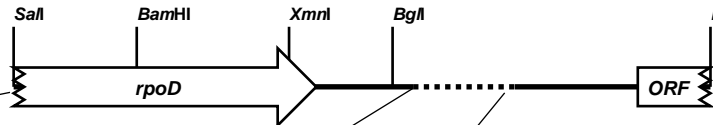


(A)

100 bp



p4A4 insert (~2000 bp)

(B)

```

1  gtcgacgaagctggagcgacgcgctggccaaaggcaaaagcaaatcgctgaagccatt 60
   V D E S W S D A L A K G K S K Y A E A I
61  ggtcgctgcaaccggacatcatccgttgccagcagaagctgtctgcactggaagctgaa 120
   G R L Q P D I I R C Q Q K L S A L E A E
121 accggcttgaagattgccgagatcaaggacatcaacgcgtcgcatgctggtgaggcc 180
   T G L K I A E I K D I N R R M S I G E A
181 aagccccgccgcgcaagaagagatggttgaagccaacttgcgtctggtgatctccatc 240
   K A R R A K K E M V E A N L R L V I S I
241 gccaaagaagtacaccaacccgtggcttgcagttcctgcagttgatccaggaaggcaacatc 300
   A K K Y T N R G L Q F L D L I Q E G N I
301 ggcttgatgaaagcggtagacaagttgaataaccgcgcggtacaaaattctcgacttat 360
   G L M K A V D K F E Y R R G Y K F S T Y
361 gccacctgggtgcatccgtcaggcgatcactcgctcgatcgccgaccaggcccgaccatc 420
   A T W W I R Q A I T R S I A D Q A R T I
421 cgtattccgggtgcacatgatcgagacgatcaacaagctcaaccgcatttcccgccagatg 480
   R I P V H M I E T I N K L N R I S R Q M
481 ttgcaggaaatgggtcgtagaaccgaccccggaagagctgggcaacgcgatggaatgcct 540
   L Q E M G R E P T P E E L G E R M E M P
541 gaggataaaatccgcaaggtattgaagatcgctaagagccgatctccatggaaccccg 600
   E D K I R K V L K I A K E P I S M E T P
601 atcggtgatgacgaagactcccattctggcgacttcacgaagactcgaccatgcagtcg 660
   I G D D E D S H L G D F I E D S T M Q S
661 ccaatcgatgtagccaccgtagagagccttaagaaagcgacacgcgactctccggc 720
   P I D V A T V E S L K E A T R D V L S G
721 ctcaccgcacgtgaagccaaagtactgcgcagtcgcttcggcatcgacatgaataccgac 780
   L T A R E A K V L R M R F G I D M N T D
781 cacacccttgaggaggttgtaagcagttcgacgttacccgtgaacggattcgtcagatc 840
   H T L E E V G K Q F D V T R E R I R Q I
841 gaagccaaggcgttgcgcaagctgcgccaccgcagagaagcgagcatctgcgctccttc 900
   E A K A L R K L R H P T R S E H L R S F
901 ctcgacgagtgaTACCAAAACCCCGGCCCTGCGGGGGTTTGTGCTTTATAGCAACCTGC 960
   L D E *
961 CCTCCCCGTTCTTTCGCCTGCCAGGCGCATGTCACGTCCGCAGACCACTCCATGACTGCA 1020
1021 ACCTCTTGCCCCCTGCCTGCGAAGAAACCCCGACAAAACCATCATTAGCGCAGAGTGCC 1080
1081 GAGACCTGGCTCGACAGGATTTTCTTGGCCGACAAAGCTGCGAACGGATACAGACCCGCAT 1140
1141 CGCCAGCACGGCGCAAAACCGC 1161

```

(C)

```

1  TCGCAGAGACCATTTGTTACGCCTCTATTTCAGACTTTTCGGATAGCACTCACGAGAAAC 60
61  CATCGTTATAATCCNCGACCTACTGAGGGCCTATAGCTCAGTTGGTTAGAGCAGGGGACT 120
121 CATAATCCCTTGGTCTGAGTTCGAGTCTCTACTGGGCCCCACCATACTCAAAGCCGCGCAC 180
181 TGC GCGGCTTTCTGTTTCTGGCTCCAGCGCAGCAGCGCTGGCTCGCTGCGGCGGACAC 240
241 TTCTTCCGCCATCTGAAAGTCCCGGGCGCTTAAACAACAGGCTGATCTATTGCACCTGC 300
301 AACCACGAGCCGTCAGGCCatgtaccatgaccaccgcgctcaccaatgccacaggagccc 360
   M Y H D H P R H Q C H R S P
361 tcccttgtctgatgccaccgcgcgcgctggatgaaccgcagcccaattgatcggggc 420
   P L S D A H P P A L D E T D R Q L I G A
421 cctgcaactcaatgcccgcaagcggtggcaatgctggctcgccagctggggatcgcgcg 480
   L Q L N A R E S V A M L A R Q L G I A R
481 caccacggtgaccttgcggctggcacgactggagaaaaccggagtgattaccggctatgg 540
   T T V T L R L A R L E K T G V I T G Y G
541 cgttcgctgggcccagcgactgattgatggcggaatgcgag 580
   V R L G Q R L I D G G L Q

```

(D)

```

c
c t
c - g
g - c
g - c
c - g
c - g
c - g
c - g
a - t
a - t
a - t
a - t
L D E *
5' ctc gac gag tga tacc-gctttatagcaacctgc 3'

```