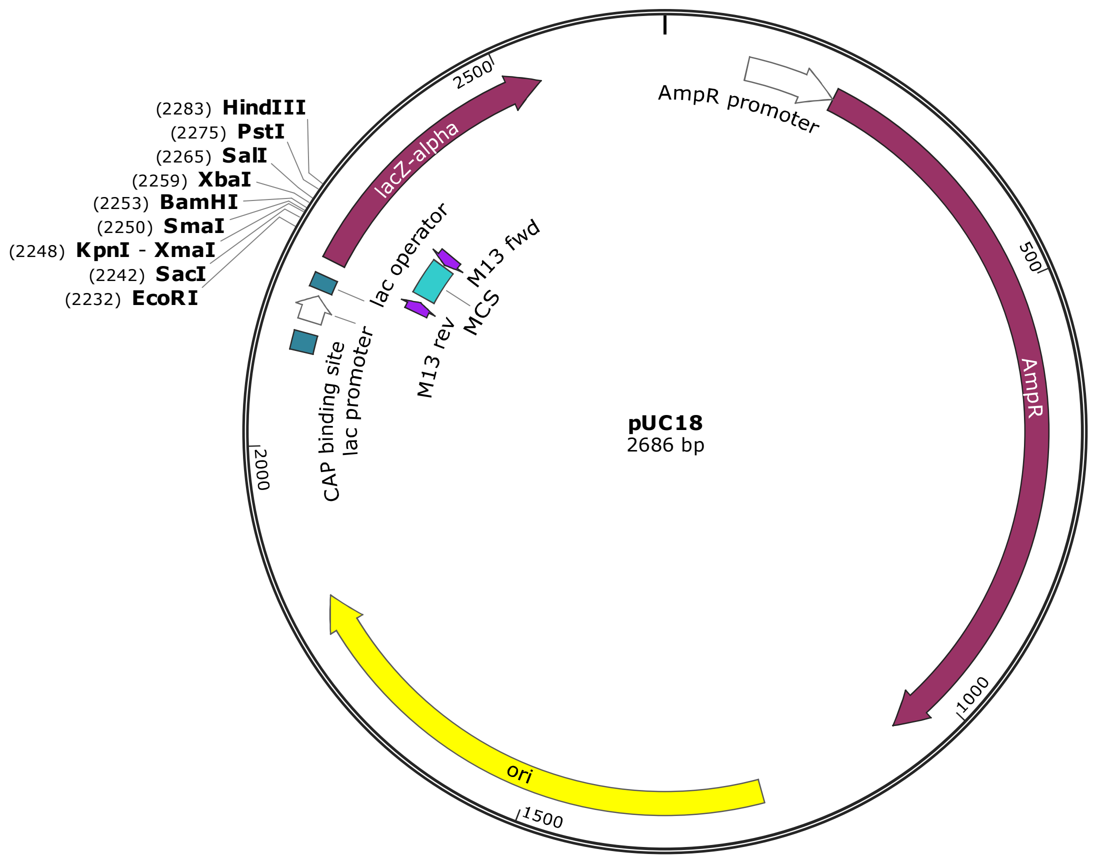


```
ACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTC
                                                                              1950
TGTACAAGAAAGGACGCAATAGGGGACTAAGACACCTATTGGCATAATGGCGGAAACTCACTCGACTATGGCGAG

GCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTC
                                                                              2025
CGGCGTCGGCTTGCTGGCTCGCGTCGCTCAGTCACTCGCTCCTTCGCCTTCTCGCGGGTTATGCGTTTGGCGGAG

TCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCA
                                                                              2100
AGGGGCGCGCAACCGGCTAAGTAATTACGTCGACCGTGCTGTCCAAAGGGCTGACCTTTCGCCCGTCACTCGCGT

ACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGT
                                                                              2175
TGCGTTAATTACACTCAATCGAGTGAGTAATCCGTGGGGTCCGAAATGTGAAATACGAAGGCCGAGCATACAACA
       CAP binding site                                  lac promoter

                                                              EcoRI  SacI  KpnI XmaI  SmaI
GTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACGAATTCGAGCTCGGTACCC
                                                                              2250
CACCTTAACACTCGCCTATTGTTAAAGTGTGTCCTTTGTCGATACTGGTACTAATGCTTAAGCTCGAGCCATGGG
                                              1               5              10
                                              Met Thr Met Ile Thr Asn Ser Ser Ser Val Pro
      lac operator                            lacZ-alpha
                                M13 rev                      MCS

   BamHI  XbaI  SalI       PstI     HindIII
GGGGATCCTCTAGAGTCGACCTGCAGGCATGCAAGCTTGGCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAA
                                                                              2325
CCCCTAGGAGATCTCAGCTGGACGTCCGTACGTTCGAACCGTGACCGGCAGCAAAATGTTGCAGCACTGACCCTT
          15              20              25              30              35
Gly Asp Pro Leu Glu Ser Thr Cys Arg His Ala Ser Leu Ala Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu
                                lacZ-alpha
                 MCS                              M13 fwd
```


AACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC
2400
TTGGGACCGCAATGGGTTGAATTAGCGGAACGTCGTGTAGGGGGAAAGCGGTCGACCGCATTATCGCTTCTCCGG
40 45 50 55 60
Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala
lacZ-alpha
CGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCCTGATGCGGTATTTTCTCCTTACG
2475
GCGTGGCTAGCGGGAAGGGTTGTCAACGCGTCGGACTTACCGCTTACCGCGGACTACGCCATAAAAGAGGAATGC
65 70 75 80 85
Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Leu Met Arg Tyr Phe Leu Leu Thr
lacZ-alpha
CATCTGTGCGGTATTTCACACCGCATATGGTGCACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAG
2550
GTAGACACGCCATAAAGTGTGGCGTATACCACGTGAGAGTCATGTTAGACGAGACTACGGCGTATCAATTCGGTC
90 95 100 105
His Leu Cys Gly Ile Ser His Arg Ile Trp Cys Thr Leu Ser Thr Ile Cys Ser Asp Ala Ala *
lacZ-alpha
CCCCGACACCCGCCAACACCCGCTGACGCGCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCT
2625
GGGGCTGTGGGCGGTTGTGGGCGACTGCGCGGGACTGCCCGAACAGACGAGGGCCGTAGGCGAATGTCTGTTCGA