

LAB ____: CLONING PAPER PLASMID

In this exercise you will use paper to simulate the cloning of a gene from one organism into a bacterial plasmid using a restriction enzyme digest. The plasmid (*puc18* plasmid) can then be used to transform bacteria so that it now expresses a new gene and produces a new protein.

1. From the white paper, cut out the *puc18* plasmid DNA in a long strip.

AAATCGTTTGC

2. Attach the ends together to make a loop to simulate the circular DNA of a plasmid.



3. From the green paper, cut out the Jellyfish *Glo* gene DNA in a long strip. Leave it as a straight strip. (This is a gene from a vertebrate not a bacterium, so it is not circular.)

GGATCGAAAGC

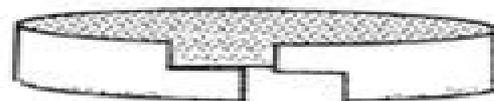
The start and stop sequences for transcribing the Jellyfish *GFP* or *Glo* gene are highlighted. These are needed to transcribe the gene properly when it is read.

In addition, the *Hind*III & *Eco*R1 restriction enzyme cutting sites (sequences of bases) are marked in **bold** on the Jellyfish *Glo* gene DNA. The two restriction enzymes and their respective restriction sites are listed below. These enzymes act as "molecular scissors" to cut the DNA at these sequences in the DNA:

Restriction enzyme	Recognition site (5'→3')
<i>Hind</i> III	A ↓AGCT T T TCGA↑ A
<i>Eco</i> R1	G ↓AATT C C TTAA↑ G

The six letter sequence represents the nitrogen base sequence that the enzyme recognizes, and ↓ represents the place where the DNA will be cut by the enzyme. For example, *Hind*III cuts between A and A whenever it encounters the six base sequence AAGCTT.

4. Cut the green Jellyfish DNA as if you have used the a restriction enzyme, *Hind*III. Be sure to leave "sticky ends."
5. Also, cut the white *puc18* plasmid DNA as if you have performed a restriction enzyme digest with *Hind*III. Be sure to leave "sticky ends."



Biology Lab Cloning Paper Plasmid Answer Deflor

Joacim Rocklöv



Biology Lab Cloning Paper Plasmid Answer Deflor:

Cracking the Code Or Cloning Paper Plasmid , Patricia Colbert and Phillis Unbehagen offer a collection of activities for biology students in grades 10 12 entitled Cracking the Code or Cloning Paper Plasmid Access Excellence a service of the nonprofit National Museum of Health provides the activities online The activities were created as part of the National Leadership Program for Teachers of the Woodrow Wilson National Fellowship Foundation **Recombinant DNA Laboratory Manual, Revised Edition** Judith W. Zyskind, Sanford I. Bernstein, 2012-12-02 The latest edition of this introductory benchtop manual is up to date affordable and easy to follow This text is perfect for your two quarter or one semester course in Recombinant DNA Techniques and is specifically designed to lead your student or technician who is a newcomer to molecular biology from the basic skills of growing and maintaining bacterial colonies through plasmid DNA isolation cloning DNA sequencing and hybrid detection Comb bound three column large 9 1 4 x 7 1 2 format Exercises contain explanatory material and margin notes that pinpoint critical steps and important concepts Necessary reagents and equipment are presented in a checklist at the beginning of each protocol Techniques for bacteria are complemented with those for Drosophila Each experiment has been tested in the laboratory by students for five years Features a complete chapter on computers in the molecular biology laboratory Presents helpful appendixes on safety in the laboratory frequently used ancillary techniques and recipes for buffers media and strains **E. coli Plasmid Vectors** Nicola Casali, Andrew Preston, 2008-02-03 A comprehensive collection of readily reproducible techniques for the manipulation of recombinant plasmids using the bacterial host E coli The authors describe proven methods for cloning DNA into plasmid vectors transforming plasmids into E coli and analyzing recombinant clones They also include protocols for the construction and screening of libraries as well as specific techniques for specialized cloning vehicles such as cosmids bacterial artificial chromosomes l vectors and phagemids Common downstream applications such as mutagenesis of plasmids recombinant protein expression and the use of reporter genes are also described

Decoding **Biology Lab Cloning Paper Plasmid Answer Deflor**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Biology Lab Cloning Paper Plasmid Answer Deflor**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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