

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*RI 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> RI	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."



Lab Cloning Paper Plasmid

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The Molecular Mechanisms of Antibiotic Resistance in Aquatic Pathogens Xiangmin Lin, Patrícia Poeta, Bo Peng, Xiao-Peng Xiong, 2020-12-09 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

The Recombinant University Doogab Yi, 2015-03-23 The advent of recombinant DNA technology in the 1970s was a key moment in the history of both biotechnology and the commercialization of academic research Doogab Yi's *The Recombinant University* draws us deeply into the academic community in the San Francisco Bay Area where the technology was developed and adopted as the first major commercial technology for genetic engineering In doing so it reveals how research patronage market forces and legal developments from the late 1960s through the early 1980s influenced the evolution of the technology and reshaped the moral and scientific life of biomedical researchers Bay Area scientists university administrators and government officials were fascinated by and increasingly engaged in the economic and political opportunities associated with the privatization of academic research Yi uncovers how the attempts made by Stanford scientists and administrators to demonstrate the relevance of academic research were increasingly mediated by capitalistic conceptions of knowledge medical innovation and the public interest Their interventions resulted in legal shifts and moral realignments that encouraged the privatization of academic research for public benefit *The Recombinant University* brings to life the hybrid origin story of biotechnology and the ways the academic culture of science has changed in tandem with the early commercialization of recombinant DNA technology

Feature Papers Michael Henson, 2018-10-04 This book is a printed edition of the Special Issue Feature Papers that was published in *Processes*

CBSE Class 12 Biology Previous Year Solved Paper Code 004 Chapterwise Questions with Videos and Online Test Papers Jaishree Soni, 2025-08-01 We are pleased to present this compilation of CBSE Class 12th Biology Previous Year Solved Paper Code 004 Chapterwise Questions with Videos and Online Test Papers designed to help students prepare efficiently and strategically for their board examinations This book is structured to provide a clear understanding of each chapter by organizing previous years questions in a systematic topic wise format as per the latest CBSE syllabus and exam guidelines Biology is a subject that requires both theoretical clarity and the ability to apply concepts accurately in exams To bridge this gap we have provided thoroughly solved questions from actual board exams arranged chapter by chapter so students can strengthen their understanding one concept at a time

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 *Laboratory Manual on Biotechnology* P. M. Swamy,2008 **Addison-Wesley Biology** Addison Wesley,1996-04 History of Chemoattractant Research Bernhard Moser,2016-01-07 In the Research Topic History of Chemoattractant Research we will portray some of the key discoveries that helped to transform cell migration research into a global playing field within immunology and beyond Early progress had a profound effect on both academia and industry Today numerous academic laboratories are fully engaged in compiling a detailed road map describing the highly complex network of immune and tissue cells that respond to chemoattractants Industrial research on the other hand centers on drugs that interfere with immune cell traffic in inflammatory diseases and cancer The following series of short stories provide personal accounts on key discoveries The individual molecular discoveries enabled numerous research laboratories worldwide to unravel their significance in steady state or pathological immune processes Although ground breaking in their own right it is therefore worth emphasizing that rapid progress in chemoattractant research was made possible by many other laboratories who were not directly involved in the original discovery process Therefore the authors of this mini series are discussing their findings in the context of time place and subsequent progress enabled by their discoveries It is hoped that a wide readership will find these accounts entertaining as well as educational although those who wish to gain a more detailed knowledge are referred to the many outstanding reviews on chemokines and other chemoattractants *Molecular Genetics of Bacterial Pathogenesis* Stanley Falkow,1994 Journal of Bacteriology Charles-Edward Amory Winslow,James Morgan Sherman,John Roger Porter,1984 *Soviet Genetics* ,1985 Applied and Environmental Microbiology ,2000 Cancer Biochemistry Biophysics Harry Darrow Brown,1982 Conference Papers Index ,1987 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues Use of Services for Family Planning and Infertility, United States Gerry E. Hendershot,Karl E. Bauman,1988 **Biochemistry Abstracts** ,1984 **Current Advances in Genetics** ,1978 **Government Reports Announcements & Index** ,1988 **Genetics Abstracts** ,1993 **Biotechnology Research Abstracts** ,1991 Monthly Classified listing of references to worldwide articles dealing with all aspects of biotechnology Also includes books and conferences Each entry gives bibliographic information institutional address of author s and abstract Author and subject index

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