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## **Biology Lab Cloning Paper Plasmid**

What is a plasmid? A

circular-shaped

bacteria that is capable

of taking in new DNA

and making it circular.

Why did we cut both

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segments of DNA with the same restriction enzyme? Because both segments of DNA have the same recognition site so they are cut by the same restriction enzyme.

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Plasmid Answers Key

protein. 1. From the white paper, cut out

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C TTAA G - Explore

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Answers Key**

Two segments.

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Teacher directions followed by student results and discussion.

Key Terms Reviewed:

Functional

Recombinant DNA

Restriction enzyme,

Transgenic Organism,

Plasmid, Gene Splicing

...

## **LAB: Recombinant DNA using Paper Plasmids**

LAB: CLONING PAPER

PLASMID In this

exercise you will use

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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.

**Answers Lab Cloning  
Paper Plasmid**

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already studied in class  
or have read in your  
text.

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## **Pearson - The Biology Place**

Minimally, lab-created plasmids have an origin of replication, selection marker, and cloning site. The ease of modifying plasmids and the ability of plasmids to self-replicate within a cell make them attractive tools for the life

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scientist or

bioengineer. Vector

Element Description

Origin of Replication

(ORI)

**Plasmids 101: A  
Desktop Resource  
(1st Edition)**

**Plasmids ...**

Recombinant DNA  
technology is at the  
heart of the  
biotechnology industry.  
In this lab, we will be  
performing restriction  
enzyme cloning to

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create a new  
(recombinant) plasmid.  
It is this same method  
that Herbert Boyer and  
Stanley Cohen used in  
1973 to herald in the  
field of genetic  
engineering.

## **DNA CLONING - Cabrillo College**

During the laboratory  
session, plasmid DNA  
suitable for PCR was  
generated from this  
culture using a  
miniprep DNA isolation

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kit (available from Qiagen at a cost of about \$1 per plasmid preparation). The miniprep procedure should take the average student ~1 h and yield 50  $\mu$ l of purified plasmid at a concentration of ~200 ng/ $\mu$ l.

**Gene amplification  
by PCR and  
subcloning into a  
GFP-fusion ...**

Runs in Windows (XP,  
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Vista, 7, 8, and 10) and

Mac (OS X v10.5 and

above) Highlights

restriction sites in the  
editing window

Accurately reflects

Dam/Dcm blocking of  
enzyme sites

**ApE- A plasmid**

**Editor - Jorgensen**

**Lab**

The source of the  
insert for cloning may  
be genomic DNA, a  
portion of another  
plasmid, or a linear

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DNA fragment.

Regardless of the type of source DNA, a common first step in preparation of the insert is to perform restriction digestion to generate compatible ends for subsequent splicing into the vector.

## **Traditional Cloning Basics | Thermo Fisher Scientific - US**

The Torsten Wittmann Lab has deposited plasmids at Addgene



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for distribution to the  
research community.

Addgene is a nonprofit  
plasmid repository  
dedicated to improving  
life science research.

Learn more about  
research in the Torsten  
Wittmann Lab.

## **Addgene: Torsten Wittmann Lab Plasmids**

AQUA Cloning is both  
simple and reliably  
usable in ordinary lab  
strains of *E. colias*

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demonstrated here in experimental examples covering common tasks of a modern biologist as well as for the generation of a sophisticated light- and chemically-responsive synthetic Boolean operation encoded in a single plasmid.

**AQUA Cloning: A Versatile and Simple Enzyme-Free Cloning**

...

DNA technology,

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laboratory exercises.

Cloning a gene into a

vector such as a

plasmid is a method

widely used in

molecular biology and

biochemis-.

try laboratories for the

purpose of transferring

the gene. into another

organism. The

organism can then

express a. gene-related

protein using its own

genetic machinery.

**Laboratory Exercises**

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- **IUBMB**

A fundamental step in molecular biology is the cloning of a DNA fragment insert into a plasmid vector. This allows the cloned fragment to be replicated upon transformation of the recombinant molecule into a bacterial cell (see Chapters 4 and 5) so that the DNA of interest can be investigated further.

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## **Cloning in Plasmid**

**Vectors | Answers**

**SpringerLink**

During DNA cloning, a new gene is inserted into a loop of bacterial DNA called a plasmid. As shown in the animation, the plasmid is first cut with a restriction enzyme so that the gene of interest, which is isolated from another organism, can be inserted into the loop.

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**DNA Cloning with**

**Plasmids - HHMI**

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and Study Sets |  
Quizlet**

Benchling: While you might think of

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Louisville

Benchling as an electronic lab notebook, it also has a suite of molecular biology tools and can make plasmid maps. Free for academic users. Genome Compiler: Free web or desktop-based software for plasmid design and mapping. Serial Cloner: Free desktop-based software for plasmid design and mapping.

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ecf8427e.