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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
segments of DNA with
the same restriction

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

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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

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a restriction enzyme
digest The plasmid
(puc18 plasmid...

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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

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digest The plasmid (puc18 plasmid) can then be used to transform bacteria so that it

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Two segments.
Teacher directions followed by student results and discussion.
Key Terms Reviewed:
Functional
Recombinant DNA
Restriction enzyme,

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Cloning Paper
Transgenic Organism,
Plasmid, Gene Splicing

Key

LAB: Recombinant DNA using Paper Plasmids

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aimed to enhance
teacher preparation
and student learning in
Biochemistry,
Molecular Biology, and
related sciences such
as Biophysics and Cell
Biology, by promoting
the world-wide
dissemination of
educational materials.

An in silico DNA cloning experiment for the biochemistry

...

Minimally, lab-created

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Plasmid Vectors
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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 scientist or bioengineer. Vector Element Description Origin of Replication (ORI)

Plasmids 101: A
Page 11/24

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(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 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

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engineering.

**DNA CLONING -
Cabrillo College**

During the laboratory session, plasmid DNA suitable for PCR was generated from this culture using a miniprep DNA isolation kit (available from Qiagen at a cost of about \$1 per plasmid preparation). The miniprep procedure should take the average student ~1 h

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and yield 50 μ l of
purified plasmid at a
concentration of \sim 200
ng/ μ l.

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

Runs in Windows (XP,
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

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enzyme sites

ApE- A plasmid
Editor - Jorgensen
Lab

Make copies of the DNA Sequences for Cut-Outs, one per group; it is helpful if the plasmid DNAs (page 1) are printed on different colored paper from the mammal DNAs (page 2) to help distinguish them during the activity. Then cut the DNA sequences into

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strips.

Bacteria

Transformation -

Activity -

TeachEngineering

Introduction to DNA cloning. Introduction to DNA cloning. If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains

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*.kastatic.org and
*.kasandbox.org are
unblocked.

DNA cloning and recombinant DNA (video) | Khan Academy

Learn more about
synthetic biology
resources available at
Addgene. Browse
featured collections or
depositing labs. ... How
can I be notified when
a plasmid from a
specific lab or paper is

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available? What services does Addgene provide? ... Browse plasmids related to cloning and genomic modification, including shuttle, integration, reporter, and ...

Addgene: Synthetic Biology - Overview

During DNA cloning, a new gene is inserted into a loop of bacterial DNA called a plasmid. As shown in the animation, the plasmid

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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.

DNA Cloning with Plasmids - HHMI BioInteractive

Can you help me find a plasmid? There is a problem with the plasmid I received. My stab did not grow.

What do I do? What

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strain of bacteria does my stab contain? How can I be notified when a plasmid from a specific lab or paper is available? What services does Addgene provide? View all Technical Support articles

Addgene: Popular Plasmids

Oxford Genetics specialises in the production of modular DNA plasmids for

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biological research.

Their main technology (SnapFast) is designed to make genetic engineering cheaper and more efficient by providing scientists with a versatile cloning platform and access to a library of matched DNA inserts.

Restriction Enzyme Cloning Manual | Sigma-Aldrich

In some transformation experiments, a color-

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processing gene such as LacZ gene is utilized for confirmation of the molecular cloning (inserting a DNA fragment of interest into a plasmid vector). Plasmids with an uninterrupted LacZ gene turn their bacteria blue.

Recombinant Plasmid - an overview | ScienceDirect Topics

The plasmid is a small,

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circular piece of DNA that is replicated within the host, and exists separately from the host's chromosomal or genomic DNA. By physically joining the DNA of interest to the plasmid vector through phosphodiester bonds, the DNA of interest becomes part of the new recombinant plasmid and is replicated by the host.

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