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Plasmid Answers

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 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 Lab

Flashcards | Quizlet

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

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protein. 1. The white strip represents the plasmid puc18 2.

AAAGCTTTGC.....

GGTCGAAAGC.....

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CLONING PAPER
PLASMID In this
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one organism into a bacterial plasmid using a restriction enzyme digest The plasmid (puc18 plasmid)

[PDF] Cloning Paper Plasmid Lab Answer Key

Recombinant Paper
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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.

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PAPER PLASMID In this
exercise you will use
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that are obsolete.

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Paper Plasmid activity - Liberty Union High School District

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

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Restriction enzyme,
Transgenic Organism,
Plasmid, Gene Splicing
...

LAB: Recombinant DNA using Paper Plasmids

The cloning method is ultimately chosen based on the plasmid you want to clone into. Regardless, once the cloning steps are complete, the vector containing the newly inserted gene is

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transformed into bacterial cells and selectively grown on antibiotic plates. Addgene has compiled various educational resources to facilitate plasmid use in the lab.

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

Plasmid Cloning.
STUDY. PLAY. isolating.
In essence, DNA
cloning involves ~ a

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particular DNA from a mixture of DNA sequences. vector. In order to clone a DNA, first it needs to be inserted into a. phage or plasmid. A vector is usually a ~ or ~ that is highly modified and can replicate in a host cell.

Plasmid Cloning Flashcards | Quizlet

Oligo annealing and cloning into backbone vectors: 1. Digest 1ug

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of plasmid with BbsI for 30 min at 37°C: 1 ug Plasmid 1 ul FastDigest BbsI (Fermentas) 1 ul FastAP (Fermentas) 2 ul 10X FastDigest Buffer X ul ddH₂O 20 ul total 2. Gel purify digested plasmid using QIAquick Gel Extraction Kit and elute in EB. 3.

Target Sequence

Cloning Protocol

DNA CLONING

INTRODUCTION

Recombinant DNA

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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 engineering. The only

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Cabrillo College**

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to mark on the
PLASMID MAP (yellow

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answer sheets) where the enzyme will cut. Label each. Also, note on the table on your yellow answer sheets how many times it will cut the plasmid.

REMEMBER THAT YOUR GOAL IS TO FIND THOSE ENZYMES THAT WILL CUT THE PLASMID ONCE AND ONLY ONCE. Continue this procedure until all 8 enzymes have been tried.

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**The E. coli Insulin
Factory - BIOLOGY
JUNCTION**

Cloning Paper Plasmid

Lab Answer Key level

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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

a restriction enzyme

digest The plasmid

(puc18 plasmid)

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Yeah,

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Plasmid

The GAPDH cloning exercise introduces students to a multitude of wet-lab techniques, such as DNA isolation, PCR, gel

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electrophoresis, PCR purification, preparation of competent cells, ligation, heat-shock transformation, plasmid isolation, and restriction digests.

Effectiveness of a Cloning and Sequencing Exercise on ...

plasmid by transformation can be induced to express the pro-tein. Students

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submit this sequence and all prior web results recorded in the text file to the instructor as part of their laboratory reports. Students are also instructed to answer the postlaboratory questions about the laboratory and prelaboratory lecture in their laboratory report.

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