Recombinant Paper Plasmids Lab Answers

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Recombinant Paper Plasmids Lab Answers

Recombinant Paper Plasmids Lab Answers 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 Paper Plasmid Lab Answers - krausypoo.com

Recombinant Paper Plasmids Lab

Answers

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Recombinant Paper Plasmids Lab Answers - Free PDF File Sharing with tape. Your recombinant plasmid should

be circular with a portion of the cell DNA included. 7. Locate the antibiotic resistant sites on the recombinant plasmid, along mth the replication site. If you spliced the DNA gene into the middle of the plasmid replication site, the ...

Recombinant Paper Plasmid Lab

Answers

Recombinant Paper Plasmids Lab Answers - Free PDF File Sharing The gene becomes active and the bacteria begin producing the protein. 3 Procedure for Making a Paper Model of Recombinant DNA 1. Construct a plasmid. a. Cut out the plasmid strips along the dotted lines. b. Tape them

together, end to end, in any order.

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Recombinant Paper Plasmids Lab Answers

BIOLOGY LAB CLONING PAPER PLASMID

ANSWER PDF 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 engineering.

[Book] Biology Lab Cloning Paper Plasmid

Two segments. 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: Recombinant DNA using Paper Plasmids 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.

Paper Plasmid Lab

Recombinant Paper Plasmids Follow all instructions carefully. Materials Needed Plasmid Pattern Sheet Enzyme Pattern

Sheet Cell DNA Pattern Sheet Scissors Scotch tape Colored map pencils Construction of the Plasmid 1. Locate the plasmid pattern sheet. Carefully trim off the antibiotic key on the bottom and place it to one side for later reference. 2.

Recombinant Paper Plasmids Cut-and-Paste Biotechnology

Plasmids are a wonderfully ally for biologists who desire to get bacteria to produce very specific proteins. The plasmids conveniently can be cut, fused with other DNA and then reabsorbed by bacteria. The bacteria easily incorporate the new DNA information into their metabolism. This “recombining” of DNA is called RECOMBINANT DNA.

The E. coli Insulin Factory - BIOLOGY JUNCTION

identifying bacteria that successfully incorporate desired recombinant plasmids. Note the location of the antibiotic resistance sites (variousiy shaded) on the plasmid, as well as the location of the plasmid replication site.

The key for these sites is at the bottom of the plasmid paper sheet. 2. Assemble the DNA:

Recombinant Paper Plasmid Background

Attached to this lab are model DNA sequences representing the puc18 plasmid & the Jellyfish Glo gene

sequence. For this exercise, you need to give each student a copy of the puc18 plasmid DNA sequence on strip of white paper & a copy of the Jellyfish Glo gene sequence on a strip of green paper. (V2.0)

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I will include photos of the completed sequences when I get a chance, for now, just including answers to the analysis questions. The plasmid should be circular with a section of human DNA spliced into the circle. Discussion Questions . 1. Why was it important to find an enzyme that would cut the plasmid at only one site?

DNA ANALYSIS - simulating recombination

The purpose of this lab is to get the recombinant plasmids engineered by students into bacterial cells (Ecoli) so that they can express the newly incorporated rfp gene and make the mutant fluorescent protein.