

Plasmid Mapping Exercise Answer Key

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Plasmid Mapping Exercise Answer Key

Plasmid Mapping 201 Exercise Answer Key Author: amsterdam2018.pvda.nl-2020-10-25T00:00:00+00:01 Subject: Plasmid Mapping 201 Exercise Answer Key Keywords: plasmid, mapping, 201, exercise, answer, key Created Date: 10/25/2020 7:09:20 PM

Plasmid Mapping 201 Exercise Answer Key - PvdA

Extension Activity 1 Plasmid Mapping Answer Key Author: www.backpacker.com.br-2020-11-05T00:00:00+00:01 Subject: Extension Activity 1 Plasmid Mapping Answer Key Keywords: extension, activity, 1, plasmid, mapping, answer, key Created Date: 11/5/2020 3:37:19 AM

Extension Activity 1 Plasmid Mapping Answer Key

Plasmid maps normally take the form of a circle. The name of the restriction enzyme and the relative locus where the enzyme cuts the plasmid are shown on the map. The center of the map is labeled with the total number of base pairs in the plasmid.

MOLEBIO: PLASMID MAPPING ACTIVITY 2

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Extension Activity 1 Plasmid Mapping Answer Key

Plasmid mapping: Exercise # 1 Instructions Determine the number of base pairs (bp) in the whole plasmid, and then determine a scale for your plasmid map. Visualizing the map as a clock face is helpful.

Plasmid Mapping - St. Johns County School District

7. Restriction mapping is an exercise in critical thinking and logic. Plasmid 55 is difficult to completely map because of the numerous PstI restriction sites. With the data, it would be very difficult to place all the restriction sites in order. It is easier to map plasmid 53.

Extension Activity 1: Plasmid Mapping

1. Below is a restriction map for the plasmid pGEN101 (total length = 20 kb). Using this map as a guide, give the number of restriction fragments along with their associated lengths that would result from digesting pGEN101 with the restriction enzymes EcoRI, BamHI, and a combination of EcoRI + BamHI.

Restriction Mapping - Georgetown ISD

Restriction Mapping 6. A circular DNA plasmid, pDA102, has a size of 4.35 kb. When the plasmid DNA digested with combinations of restriction enzymes and the resulting fragments are electrophoresed, the following data is obtained. Using these data, construct a restriction map of plasmid pDA102 for the restriction enzymes Sall and HhaII.

6kb BamHI - MS BRADY'S CLASSROOM WEBSITE - Ms. Brady's Website

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Superimposing fragments to map the plasmid. To determine the relative position of the restriction sites on the plasmid, you need to align each of the fragments from the single digests to create one longer fragment, and superimpose one on the other. The alignment of the two large fragments from the plasmid digest is shown below. 1.

Plasmid Mapping 201 - BIOLOGY JUNCTION

Carolina: Plasmid Mapping Exercises [12/8/2008 4:27:56 PM] Plasmid Mapping Restriction enzymes are proteins that separate a DNA molecule at a specific location (locus). Think of them as molecular scissors. The terms "cut," "digest," or "restrict" may be used to describe the action of a restriction enzyme. Whenever a DNA molecule is cut with a restriction enzyme, the resulting pieces often need to be reassembled in a map representing the relative locus where the restriction enzyme cut the DNA ...

plasmid-mapping-exercises-2008 - Carolina Plasmid Mapping ...

Practice: Recombination frequency and gene mapping. This is the currently selected item. Next lesson. Sex linkage, chromosomal mutations, & non-nuclear inheritance. Genetic linkage & mapping. Biology is brought to you with support from the Amgen Foundation.

Recombination frequency and gene mapping (practice) | Khan ...

After staining with CarolinaBLU® stain, students determine the sizes of the plasmid DNA fragments in each sample and use the data to deduce a restriction map of the plasmid. Kits contain sufficient materials for either 4 or 8 teams of students to perform the exercise. Includes step-by-step instructions and practice problems.

Restriction Mapping of Plasmid DNA Kit | Carolina.com

Use the diagram above to complete the sentences or answer the following questions: 1. 2. The chemical that cuts the DNA is called a restriction enzyme. Restriction enzymes cut the DNA into The restriction enzyme used above is called EcoRI. EcoRI cuts DNA everywhere the base pattern Copynght 1993 by Trustees of Boston University is found. Page ...

RESTRICTION ENZYME WORKSHEET #1

@ rticated "scissors" that geneti- Manipulating Recombinant DNA: Mastering Genetics Visit the Study Area: Exploring Genomics Restriction Mapping s you learned in this chapter, Genomics exercise for this chapter. probe (molecular biologists often refer restriction enzymes are sophis Copy the sequence of cloned human to this as subcloning).

@ Rticated "scissors" That Geneti- Manipulating Re ...

Below is a restriction map for the plasmid pGEN101 (total length = 20 kb). Using this map as a guide, give the number of restriction fragments along with their associated lengths that would result from digesting pGEN101 with the restriction enzymes EcoRI, BamHI, and a combination of EcoRI + BamHI.

restriction_mapping_-_key - Name Restriction Mapping Date ...

Plasmids can be mapped (described) in terms of the location of restriction sites, using simple experiments and the use of logic. The general procedure is to digest a plasmid with two restriction enzymes separately (two single digests) and then together (a double digest).

Bio-Rad Explorer Forensic DNA Fingerprinting Kit

plasmid pUC. You identify two different plasmids, plasmid X and plasmid Y, that contain yfg inserted into pUC. You digest all three plasmids (pUC, plasmid X, plasmid Y) with EcoRI, BamHI, or both restriction enzymes together. All reactions are run to completion and the resulting digests give the following results: