

## ***Extension Activity 1 Plasmid Mapping Answer Key***

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### **Extension Activity 1 Plasmid Mapping**

Extension Activity 1: Plasmid Mapping Plasmids and Restriction Enzymes This lesson will demonstrate the principles of plasmid mapping by examining restriction digestion patterns of plasmids used in the laboratory section of the kit and determining the position of restriction enzyme recognition sites in the plasmids by use of logic. Plasmid

### **Extension Activity 1: Plasmid Mapping**

Extension Activity 1: Plasmid Mapping STUDENT MANUAL EXTENSION ACTIVITY 1 Plasmids and Restriction Enzymes This lesson will demonstrate the principles of plasmid mapping by examining restriction digestion patterns of plasmids used in the laboratory section of the kit and determining the position of restriction enzyme recognition sites in the plasmids by use of logic.

### **Extension Activity 1: Plasmid Mapping - Cobb Learning ...**

Refer to the plasmid maps on page 49 for more detail. 48 Student Manual STUDENT MANUAL EXTENSION ACTIVITY 1 Sample Plasmid Maps Plasmid S2 Plasmid S5 Student Manual 49 STUDENT MANUAL EXTENSION ACTIVITY 1 Reading a Plasmid Map Questions 1. From the map of plasmid S2 list all the restriction enzymes that would cut this plasmid. 2.

### **Extension Activity 1: Plasmid Mapping STUDENT MANU AL**

Extension activity plasmid mapping answer key also by category and product type, so for example, you could start learning about online user manuals for many cameras or saws, and after that dig into narrower sub categories and topics. from that point, you will be able to find all user manuals, for example, then obtain

### **EXTENSION ACTIVITY PLASMID MAPPING ANSWER KEY**

plasmid A. 2. Using the information from Table 4, indicate where the restriction enzyme cuts are located on the plasmid. (Hint: Notice how all the fragments add up to the same total.) Check your answer with your teacher. Student Worksheet Activity 6.1.1: Constructing a Plasmid Map LSM 6.1-3 Table 4 Results of Restriction Fragment Digestion of ...

### **Activity 6.1.1: Constructing a Plasmid Map**

Extension Activity 1: Plasmid Mapping - Goldie's Room 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

### **Carolina Plasmid Mapping Exercise Answers**

- 1 - DNA Technology - Mapping a plasmid A first step in working with DNA is mapping the DNA molecule. One way to do this is to use ... helps to know that the double digest is an extension of the two single digests. The bands you ... Microsoft Word - Plasmid Mapping 201 Author: rkr

### **Plasmid Mapping 201 - Biology Junction**

Extension Activity 2: Constructing a Plasmid Some plasmids replicate when the bacterial genomic DNA replicates, but others replicate independently producing hundreds of copies of the plasmid within one cell. A self-replicating plasmid contains its own origin of replication (Ori). Many plasmids also contain genes that

### **Extension Activity 2: Constructing a Plasmid - Groch Biology**

BIOTECHNOLOGY I - PLASMID MAPPING Eilene Lyons Revised 1/12/2010 Page 12-1 LAB 12 PLASMID MAPPING STUDENT GUIDE GOAL The objective of this lab is to perform restriction digestion of plasmid DNA and construct a plasmid map using the results. OBJECTIVES After completion, the student should be able to: 1. Perform plasmid DNA mapping. 2.

### **LAB 12 PLASMID MAPPING STUDENT GUIDE - STLCC.edu**

Principles of restriction analysis, plasmid mapping and DNA fragment size determination can also be documented with this kit. Open the door to rich discussions about scientific, ethical, and legal

implications of DNA ... Extension Activity 1 Plasmid Mapping.....47 Extension Activity 2 Constructing a Plasmid .....55 Appendices Appendix A ...

**Bio-Rad Explorer Forensic DNA Fingerprinting Kit**

EDVOTEK, Inc. • 1-800-EDVOTEK • www.edvotek.com EVT 100202AM EDVO-Kit 105 Mapping of Restriction Sites on Plasmid DNA See Page 3 for storage instructions. ExPERIMENT OBJECTIVE: The objective of this experiment module is to develop an under-standing of the principles of DNA mapping using various restric-tion enzymes to generate DNA fragments.

**See Page 3 for storage instructions. - EDVOTEK**

Extension Activity 1: Plasmid Mapping Reading a plasmid map 1. From the map of plasmid S2 list all the restriction enzymes would cut this plasmid. PvuII, EcoRI, BamHI, PstI, EcoRV, HindIII, ScaI 2. Which plasmid, S2 or S5, is the biggest and what is its size? S5 is the largest (9481 bp) 3.

**2 Which of your DNA samples were fragmented What would ...**

Forensic DNA Fingerprinting Kit Instruction Manual Catalog #166-0007EDU ... can be combined to obtain a DNA fingerprint. Principles of restriction analysis, plasmid mapping and DNA fragment size determination can also be documented with this kit. ... Extension Activity 2 Constructing a Plasmid .....55 Appendices Appendix A Alternative DNA ...

**Forensic DNA Fingerprinting Kit Instruction Manual**

It is easier to map plasmid S3. Shown above is the data generated from digestion of plasmid S3 with EcoRI and PstI. How many times did EcoRI cut plasmid S3? What are the fragment sizes? 53 STUDENT MANUAL EXTENSION ACTIVITY 1 Student Manual Plasmid S3 (7367 bp) Enzymes EcoRI PstI Both Fragments 6504 4507 3687 863 2860 2817 820 1093 43 Total

**2 Look at the data from the EcoRI digest of plasmid S5 How ...**

Principles of restriction analysis, plasmid mapping and DNA fragment size determination can also be documented with this kit. Open the door to rich discussions about scientific, ethical, and legal implications of DNA ... Extension Activity 1 Plasmid Mapping .....47 Extension Activity 2 Constructing a Plasmid .....55 Appendices Appendix A ...

**Biotechnology Explorer™ Forensic DNA Fingerprinting Kit**

(1:22:15) Briefly explain why it was decided that the clinical trial of the drug created for Pompe Disease would only be initially administered to infants.It was decided the clinical trials of medicine for Pompe Disease would only be

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