

### restriction enzymes worksheet answers pdf

RESTRICTION ENZYME WORKSHEET (continued) Name: Another restriction enzyme is called *HaeIII*. It cuts DNA at the following base sequence: CCGG GGCC It cuts between the C and the G as follows: CCGG GGCC I. 2. 3. 4. Show the DNA fragments that would result if *HaeIII* was used to cut the DNA fragment shown in diagram I.

### RESTRICTION ENZYME WORKSHEET #1

Restriction Enzymes: DNA Scissors Background: DNA fingerprinting is made possible in part by special enzymes that cut DNA. These enzymes are called restriction enzymes. Restriction enzymes are proteins that bacteria use to cut up DNA that doesn't belong to them.

### Restriction Enzymes: DNA Scissors

Restriction Enzymes Worksheet Name: \_\_\_\_\_ Objective(s): Identify restriction sites. Show differences between blunt and sticky (cohesive) end cuts. Compare restriction enzyme differences on identical DNA. Directions: Identify the restriction sites for each of the examples given. Show the cuts, sticky

### Restriction Enzymes Worksheet - Cabarrus County Schools

Use this strand of DNA to answer the questions that follow: 5' ATTGGATCCCTGAGATCCGATGGATCCGGATCTT 3' 3' TAACCTAGGGACTCTAGGCTACCTAGGCCTAGAA 5' 1. The restriction enzyme *BamHI* cleaves (cuts) double-stranded DNA at this sequence: 5' GGATCC 3'. 3' CCTAGG 5' It makes a blunt cut each time it finds this sequence in the fragment.

### DNA RESTRICTION ENZYME AND PROBE WORKSHEET

Created Date: 8/16/2009 2:32:22 PM

### www.cabarrus.k12.nc.us

3. Create a restriction enzyme that will remove the gene of interest. Give it a name too! 4. The following DNA sequence is from a virus that is dangerous, scientists want to use a restriction enzyme to cut the virus into bits.

### Restriction Enzymes - Teacher's Guide - The Biology Corner

restriction enzyme; more on this later. The keys to understanding these enzymes is to study the sequence of bases that are recognized by the enzymes and the kind of cut made in the DNA once that sequence is found.

### Unit10-Restriction Enzyme Practice 2013 new

Enzymes, which are produced naturally by bacteria, cut DNA molecules at specific sites denoted by base sequences. When a restriction enzyme is used to cut different DNA molecules, the size of the fragments generated will be unique to each molecule. As shown in Figure 1, both DNA 1 and DNA 2 are cut with *HaeIII*, an enzyme that

### A DNA Restriction Analysis Laboratory Activity

Restriction Mapping 3. Plasmid pBR607 is a 2.6 kb plasmid containing Ampicillin and Tetracycline resistance markers, an origin of replication, and unique restriction sites for the restriction enzymes *EcoRI*, *BamHI*, and *PstI*. Given the restriction map for pBR607 for the enzymes *EcoRI*, *BamHI*, and *PstI*, show on

## **6kb BamHI - Central Bucks School District**

from the 5' ends to the 3' ends. This sequence is also a restriction site for the restriction enzyme called EcoRI. The name EcoRI comes from the bacterium in which it was discovered, Escherichia coli RY 13 (EcoR), and I, because it was the first restriction enzyme found in this organism.

## **DNA Scissors: Introduction to Restriction Enzymes Objectives**

Enzymes Worksheet Name:\_\_\_\_\_ 1. What is an enzyme? What is its role, and how does it perform this role? 2. What was the name of the enzyme that we used, and what was the name of its particular substrate? 3. When the substrate was metabolized, what products were formed? Which of these

## **Enzymes Worksheet Name: - El Paso Community College**

Review examples of associated standards for the Kirksville College of Osteopathic Medicine DO program (pdf). Study Tips + For information on effective learning techniques, concept mapping, test-taking strategies, stress management and more, visit the Health Sciences Study Tips page.

## **Department of Student Affairs - Learning Resources**

Restriction maps are one of the most fundamental data structures in molecular biology. These maps show the order and location of sites (small, specific sequences) at which restriction enzymes cut double stranded molecules of DNA. For example, the restriction enzyme HhaI cuts at the sequence GCGC.

## **Multiple Solutions of DNA Restriction Mapping Problems\***

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**

Restriction Enzyme Worksheet #1 (From City Lab's Case of the Missing Crown Jewels. Trustees of Boston University) A natural enemy of bacteria is a virus. To defend themselves when attacked by a virus, bacteria use chemical weapons that break up the DNA of the virus. The action of the chemicals on the viral DNA is shown in the diagram 1 below:

[Alberts molecular biology of the cell 6th edition](#) - [Adollshouseandotherplayshenrikibsen](#) - [John deere 6630 premium service manual](#) - [A bedlam of persuasions](#) - [The christmas thief mary higgins clark](#) - [Quiz interchange 3 third edition](#) - [Jim carrey unmasked](#) - [Ghost story peter straub](#) - [Credit risk modelling the cutting edge collection technical papers published in risk 1999 2003](#) - [Dios no tiene favoritos tiene intimos descargar gratis](#) - [Parisrevealedthesecretlifeofacitystephenclarke](#) - [Mitsubishi 4d56 engine manual](#) - [De oro y esmeraldas mitos leyendas y cuentos populares de latinoamerica](#) - [Mechanics of sediment transportation and alluvial stream problems](#) - [Aiptek dzo v58n manual](#) - [Afghanistan mullah marx and mujahid](#) - [Control systems engineering ramesh babu](#) - [Nagle journal a diary of the life of jacob nagle sailor from the year 1775 1841](#) - [Topsy and tim help a friend topsy tim](#) - [Yamatsu air conditioner manual](#) - [Kiko no quiere comer kiko series](#) - [Elementary statistics neil weiss 8th edition](#) - [Sweetheart 1 martha cecilia](#) - [You can negotiate anything herb cohen](#) - [The dc comics guide to writing comics](#) - [Meet bacteria mummy nature volume 1](#) - [Words of light theses on the photography of history](#) - [The black book of marketing secrets vol 17](#) - [Toyota liteace repair manual](#) - [Bv ramana higher engineering mathematics](#) - [Trainieren wie im knast der progressive ganzk rperplan f r](#) - [Housing social justice the role of policy in british housing](#) - [Reallionaire nine steps to becoming rich from the inside out](#) - [Financial statement analysis by charles h gibson ppt](#) - [Music physics and engineering olson](#) - [The country and the city raymond williams](#) - [Hilti te 92 service manual](#) -