

## *Restriction Enzyme Worksheet 1 Answers*

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**Restriction Enzyme Worksheet 1 Answers**

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**

Read a short article about how restriction enzymes are used to cut bits of DNA and those bits can be inserted into the genome of other organisms. Restriction enzymes are specific to a section of DNA, depending on the base pairs at that section, you will analyze sections of DNA and determine which restriction enzyme should be used.

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

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:

**Restriction Enzyme Worksheet #1**

Student Worksheet Answer Key 20 Extension Activities 22 ... Restriction Enzyme Worksheet #1 S-10 Extension Activity ... 1 | P a g e The Case of the Crown Jewels has two parts: A classroom activity that allows students to explore how the unique sequence of bases in DNA can be used to identify individuals.

**Case of the Crown Jewels: Background - Towson University**

Choose an answer and hit 'next'. You will receive your score and answers at the end. A restriction enzyme is a special type of enzyme that can cut DNA in specific places, and this quiz/worksheet ...

**Quiz & Worksheet - Function of Restriction Enzymes | Study.com**

RESTRICTION ENZYME WORKSHEET NAME\_\_\_\_DATE\_\_\_\_ 1. What is a restriction enzyme? Provide examples of the enzymes used in your lab. 2. a. Restriction Enzyme A reads AGTC and cuts between G and T. Cut the following DNA: A C T C A G T C C T C T A A G C C A G T C C T C A A A G T C How many fragments are there? How many bases are in each fragment?

**RESTRICTION ENZYME WORKSHEET HW - RESTRICTION ENZYME ...**

Restriction enzymes recognize specific segments of bases called restriction sites. Each different restriction enzyme (and there are hundreds, made by different species of bacteria) has its own particular restriction site where it will cut DNA. Most restriction sites are 4 to 6 bases long and are DNA palindromes. A DNA palindrome is a sequence ...

**Restriction Enzymes: DNA Scissors**

Bacteria Transformation Activity—Assessment Questions Answer Key Assessment Questions Answer Key 1. Describe the role of restriction enzymes in the process of transformation. Restriction enzymes are used to cut the DNA of both the organism with the desired gene and the plasmid.

**Assessment Questions Answer Key - TeachEngineering**

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**

Choose an answer and hit 'next'. ... as well as how and why scientists examine the cut sections of DNA through restriction enzyme analysis. Quiz & Worksheet Goals ... Restriction Enzyme Analysis ...

### **Quiz & Worksheet - Biology Lab for Restriction Enzyme ...**

Enzymes. Showing top 8 worksheets in the category - Enzymes. Some of the worksheets displayed are Enzymes and their functions, , Work, Enzymes work, Bio 101 work metabolism and cellular respiration, Amoeba sisters video recap enzymes, Digestion work answers 6 wk, Dna replication work.

### **Enzymes Worksheets - Printable Worksheets**

DNA Scissors: Introduction to Restriction Enzymes Objectives At the end of this activity, students should be able to 1 . Describe a typical restriction site as a 4- or 6-base- pair palindrome; 2. Describe what a restriction enzyme does (recognize and cut at its restriction site); 3.

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

Other restriction enzymes cut and yield “blunt ends” that do not have single-stranded ... An answer of no cut s is just as good as many cut s! Remember to go in both directions (forward and backward) on both strands. ... Unit10-Restriction Enzyme Practice 2013 new.pmd

### **Unit10-Restriction Enzyme Practice 2013 new**

Restriction 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. BamHI 2kb

### **6kb BamHI**

How do DNA engineers us restriction enzymes? What is the main purpose of gel electrophoresis? What will be done with the fragments of DNA separated in this experiment? Explain what it means for restriction enzymes to be highly specific. Explain the term palindromic as it applies to restriction enzymes. Explain the function of the EcoRI enzyme.

### **AP Biology Molecular Biology Lab Worksheet—Electrophoresis**

MIT Department of Biology 7.014 Introductory Biology, Spring 2005 Recitation Section 17 Answer Key April 11-12, 2005 Recombinant DNA and Cloning A. The Tools Recombinant DNA is a set of tools that allows scientists to move between genetics, biochemistry and molecular biology – allowing us to determine how the parts of a cell or organism work. 1.

### **MIT Department of Biology**

Restriction enzymes recognize specific segments of bases called restriction sites. Each different restriction enzyme (and there are hundreds, made by different species of bacteria) has its own particular restriction site where it will cut DNA. Most restriction sites are 4 to 6 bases long and are DNA palindromes.

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EDVOTEK, Inc. † 1-800-EDVOTEK † www.edvotek.com EVT 2011\_11\_16AM EDVO-Kit Restriction Enzyme 112 Cleavage of DNA and Electrophoresis (AP Biology Lab 6B) See Page 3 for storage instructions. EXPERIMENT OBJECTIVE: The objective of this experiment is to develop an understanding of the role of restriction enzymes and agarose gel

### **Restriction Enzyme Cleavage of DNA and Electrophoresis (AP ...**

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## Restriction Enzyme Worksheet 1 Answers

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