

Name _____

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LAB 22. DNA RESTRICTION ENZYME SIMULATION

In this exercise you will use the computer to simulate the Lambda DNA restriction digests that you will also perform in the laboratory. Using the results from the computer simulation and your actual restriction digests, you will answer a series of questions designed to help you interpret the results of your DNA digests.

1. Download and SAVE the Lambda DNA sequence from the BiologyZone Web site: http://bio.kimunity.com/ap_biology/labs/lambdaDNA.doc
2. Save the file to your computer or to a disk.
3. Open the saved file in Microsoft Word. It contains the entire phage Lambda DNA sequence, or genome. Browse through the file. Notice how the file is simply a long string of the letters A, C, G and T.

Question 1

What does each of these letters represent?

4. Now determine how many letters there are in the genome. To do this:
 - a. From the EDIT menu, choose SELECT ALL
 - b. Under the TOOLS menu, choose WORD COUNT
 - c. Note the number of characters.

Question 2

What is the size of the Lambda genome:

- a. in bases? _____
- b. in kilobases? (note: 1 Kb = 1,000 bases) _____

5. Click OK to close the window

Lab Dna Restriction Enzyme Simulation Answer Key

Karin Nielsen-Saines



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Table of Contents Lab Dna Restriction Enzyme Simulation Answer Key

1. Understanding the eBook Lab Dna Restriction Enzyme Simulation Answer Key
 - The Rise of Digital Reading Lab Dna Restriction Enzyme Simulation Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Dna Restriction Enzyme Simulation Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Dna Restriction Enzyme Simulation Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Dna Restriction Enzyme Simulation Answer Key
 - Personalized Recommendations
 - Lab Dna Restriction Enzyme Simulation Answer Key User Reviews and Ratings
 - Lab Dna Restriction Enzyme Simulation Answer Key and Bestseller Lists
5. Accessing Lab Dna Restriction Enzyme Simulation Answer Key Free and Paid eBooks
 - Lab Dna Restriction Enzyme Simulation Answer Key Public Domain eBooks
 - Lab Dna Restriction Enzyme Simulation Answer Key eBook Subscription Services
 - Lab Dna Restriction Enzyme Simulation Answer Key Budget-Friendly Options

6. Navigating Lab Dna Restriction Enzyme Simulation Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Dna Restriction Enzyme Simulation Answer Key Compatibility with Devices
 - Lab Dna Restriction Enzyme Simulation Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Dna Restriction Enzyme Simulation Answer Key
 - Highlighting and Note-Taking Lab Dna Restriction Enzyme Simulation Answer Key
 - Interactive Elements Lab Dna Restriction Enzyme Simulation Answer Key
8. Staying Engaged with Lab Dna Restriction Enzyme Simulation Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Dna Restriction Enzyme Simulation Answer Key
9. Balancing eBooks and Physical Books Lab Dna Restriction Enzyme Simulation Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Dna Restriction Enzyme Simulation Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Dna Restriction Enzyme Simulation Answer Key
 - Setting Reading Goals Lab Dna Restriction Enzyme Simulation Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Dna Restriction Enzyme Simulation Answer Key
 - Fact-Checking eBook Content of Lab Dna Restriction Enzyme Simulation Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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