

RESTRICTION ENZYME WORKSHEET

NAME _____ DATE _____ PERIOD _____

1. What is a restriction enzyme?
2. What does gel electrophoresis do?

3. a. Restriction Enzyme A reads AGTC and cuts between G and T. Cut the following DNA:

ACTCAGTCCTCTAAGCCAGTCCTCAAAAGTC

How many fragments are there?

How many bases are in each fragment?

- b. Restriction Enzyme B read CCTA and cuts between T and A. Cut the following DNA:

AGGGCTCCTAACCTGGCTACCTAGGTAAACCTAACG

How many fragments are there?

How many bases are in each fragment?

4. Shannon does not know who her father is. She goes on the Maury Povich show and they take DNA samples of three possible fathers: Jack, Daniel, and Bill. Examine the Gel Electrophoresis on the DNA samples.
 - a. Who is the father?
 - b. How do you know?

Shannon	Jack	Daniel	Bill
—	—	—	—
—	—	—	—
—		—	—
—		—	—
—	—	—	—
—		—	—

Restriction Enzyme Worksheet Answers

M Mosston



Restriction Enzyme Worksheet Answers:

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Incomplete Parental Replicative Forms of ØX174 Alicia Morales Bogardus,1979 Restriction Enzyme Supplement ,1982

Isolation of the Restriction Enzyme Sfa and Analysis of Its Recognition Sequence Charles T. King,1975 The Restricted Section August Owen Staubus,2017 **Production and Characterization of Recombinant Restriction**

Enzyme NgoMIV and Its Mutant Wei Ren,2012 Discovery of restriction enzymes has led to the development of recombinant DNA technology and restriction enzymes are currently widely used in biotechnology medicine and research Till now thousands of restriction enzymes have been discovered purified characterized and commercialized As well as production of restriction enzymes has gained a huge profit in biotechnology industry Although restriction enzymes have been applied well in current molecular biology researches a lot of questions regarding their binding and catalytic mechanisms haven't been clearly explained or described by scientists NgoMIV is a tetrameric restriction enzyme which has been discovered and purified about 20 years ago from *Neisseria gonorrhoeae* MS11 It belongs to the type II P and type II F subtypes The recognition site of NgoMIV is 5' G CCGGC 3' which is a palindromic sequence Also the tetrameric protein has two catalytic cores which means that it will bind with two cognate sites and cut them both NgoAIV which was discovered in another strain FA1090 of *Neisseria gonorrhoeae* is different from NgoMIV protein in two amino acid residues A hybrid protein called NgoIV hb was designed based on the differences In the thesis study here the expression of NgoMIV and its mutant was conducted To uncover the preference of the distance between two recognition sites digestion tests by applying a plasmid with four recognition sites as substrate were conducted At last several proposed mechanisms of catalysis based on the protein motion predicted by anisotropic elastic network model and current existing crystal structures were raised **Analysis and**

Interpretation of Restriction Enzyme Sites Poovannan Kandaraj,1993 1839, *REBASE*
New England Biolabs,1998 A collection of information about restriction enzymes methylases and the microorganisms from which they have been isolated isoschizomers recognition sequences cleavage sites methylation specificity commercial availability and references both published and unpublished Home page

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Table of Contents Restriction Enzyme Worksheet Answers

1. Understanding the eBook Restriction Enzyme Worksheet Answers
 - The Rise of Digital Reading Restriction Enzyme Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Restriction Enzyme Worksheet Answers
 - 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 Restriction Enzyme Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Restriction Enzyme Worksheet Answers
 - Personalized Recommendations
 - Restriction Enzyme Worksheet Answers User Reviews and Ratings
 - Restriction Enzyme Worksheet Answers and Bestseller Lists
5. Accessing Restriction Enzyme Worksheet Answers Free and Paid eBooks
 - Restriction Enzyme Worksheet Answers Public Domain eBooks
 - Restriction Enzyme Worksheet Answers eBook Subscription Services
 - Restriction Enzyme Worksheet Answers Budget-Friendly Options

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

- Interactive and Gamified eBooks

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