

Name: _____

Genetic Engineering – Practice what you know

1. In which 2 ways can we "change" the genome of an organism? _____ *We can delete or add genes to the genome of an organism.*
2. What is a **transgenic** organism? _____ *An organism with a gene from a different species.*
3. What is a **clone**? _____ *Genetically identical organism.*

Tools : Cutting the DNA

4. What is a **restriction enzyme**? _____ *An enzyme that cuts DNA at specific locations.*
5. What does this figure to the right show?
- a. gel electrophoresis
 - b. DNA sequencing
 - c. **a restriction enzyme producing a DNA fragment**
 - d. polymerase chain reaction



Between which nucleotides is the DNA cut?

- a. adenine and thymine
- b. cytosine and guanine
- c. thymine and cytosine
- d. **adenine and guanine**

----This is the cutting pattern of 2 restriction enzymes:----



6. Cut the following piece of DNA using the **restriction enzyme Eco R1**.

**GCCCGGGGCATG|AATTCGCGTATCGTG|AATTCTGGGCCCATCAG|AATTCAA
CGGGCCCCGTACTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT**

7. How many fragments of DNA do you get? _____ *4*

Applications Of Genetic Engineering Answer Key

M Woodhall



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Table of Contents Applications Of Genetic Engineering Answer Key

1. Understanding the eBook Applications Of Genetic Engineering Answer Key
 - The Rise of Digital Reading Applications Of Genetic Engineering Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Applications Of Genetic Engineering 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 Applications Of Genetic Engineering Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applications Of Genetic Engineering Answer Key

- Personalized Recommendations
 - Applications Of Genetic Engineering Answer Key User Reviews and Ratings
 - Applications Of Genetic Engineering Answer Key and Bestseller Lists
5. Accessing Applications Of Genetic Engineering Answer Key Free and Paid eBooks
 - Applications Of Genetic Engineering Answer Key Public Domain eBooks
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 - Applications Of Genetic Engineering Answer Key Compatibility with Devices
 - Applications Of Genetic Engineering Answer Key Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Applications Of Genetic Engineering Answer Key
 - Highlighting and Note-Taking Applications Of Genetic Engineering Answer Key
 - Interactive Elements Applications Of Genetic Engineering Answer Key
 8. Staying Engaged with Applications Of Genetic Engineering Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Applications Of Genetic Engineering Answer Key
 9. Balancing eBooks and Physical Books Applications Of Genetic Engineering Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applications Of Genetic Engineering Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Applications Of Genetic Engineering Answer Key
 - Setting Reading Goals Applications Of Genetic Engineering Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Applications Of Genetic Engineering Answer Key

- Fact-Checking eBook Content of Applications Of Genetic Engineering 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
- Interactive and Gamified eBooks

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