

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
CGGGCCCCGTA CTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT**

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

Genetic Engineering Study Guide Answer Key

Glencoe



Genetic Engineering Study Guide Answer Key:

The book delves into Genetic Engineering Study Guide Answer Key. Genetic Engineering Study Guide Answer Key is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Genetic Engineering Study Guide Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Genetic Engineering Study Guide Answer Key
 - Chapter 2: Essential Elements of Genetic Engineering Study Guide Answer Key
 - Chapter 3: Genetic Engineering Study Guide Answer Key in Everyday Life
 - Chapter 4: Genetic Engineering Study Guide Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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