

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?
- gel electrophoresis
 - DNA sequencing
 - a restriction enzyme producing a DNA fragment**
 - polymerase chain reaction



- Between which nucleotides is the DNA cut?
- adenine and thymine
 - cytosine and guanine
 - thymine and cytosine
 - 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*

Holt Biology Answer Key For Genetic Engineering

M Woodhall



Holt Biology Answer Key For Genetic Engineering:

Reviewing **Holt Biology Answer Key For Genetic Engineering**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Holt Biology Answer Key For Genetic Engineering**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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