

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*

# Genetic Engineering Study Guide Answer Key

**Ensheng Dong**



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