

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 Active Holt Biology Answer Key

**Minjie Lin**



## **Genetic Engineering Active Holt Biology Answer Key:**

Chapter Resource 11 Gene Technology Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004     **Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008     **Enzymes of Energy Technology** Fraser Armstrong, 2018-11-30 Enzymes of Energy Technology Volume 613 in the Methods in Enzymology series highlights new advances in the field with this updated volume presenting interesting chapters written by an international board of authors Chapters include Purification of fully active and crystallizable photosystem II from thermophilic cyanobacteria Production and manipulation of NiFeSe hydrogenases for renewable hydrogen research Hydrogen production by FeFe hydrogenases Production and properties of enzymes that activate and produce carbon monoxide Recombinant NiFe hydrogenases from E coli Working with nitrogenase Oxygen tolerant NiFe hydrogenases Cytoplasmic and Membrane Bound Hydrogenases from the hyperthermophile Pyrococcus furiosus and more Additional sections cover Enzymatic conversion of methane into useful chemicals Production and investigations of trans membrane electron transfer protein Characterization of post translational modifications in methyl coenzyme M reductase in diverse methanogens by mass spectrometry Reductive activation of carbon dioxide by formate dehydrogenases and Lytic polysaccharide monoxygenases in biofuel processing 14 Production and manipulation of blue copper oxidases for technological applications Yasmina Mekmouche Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Includes the latest information on the Enzymes of Energy Technology     Children's Books in Print, 2007 ,2006     *The Directory of Venture Capital & Private Equity Firms, Domestic & International* ,2003     Bulletin of the Atomic Scientists ,1966-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world     **Social Sciences Index** ,1975     Index Medicus ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings     **Dissertation Abstracts International** ,2000     *Who's who in Frontiers of Science and Technology* ,1985     Who's who in Frontier Science and Technology ,1984     Books in Print ,1994     *Books in Print Supplement* ,2002     **American Scientist, the Sigma Xi Quarterly** ,1960     The Software Encyclopedia ,1988     **The British National Bibliography** Arthur James Wells,1969     **Whitaker's Books of the Month & Books to Come** ,1986     **Forthcoming Books** Rose Army,2000     *Medical Books and Serials in Print, 1979* R. R. Bowker LLC,1979-05     **The Cumulative Book Index** ,1961

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