

# LabeXchange - Genetic Engineering Study Guide

(Based on Lab eXchange Pathways)

Answer the following (BE SURE YOUR ANSWERS ARE IN A DIFFERENT COLOR FONT):

1. What are plasmids and what are their sizes? A plasmid is a small, extrachromosomal DNA molecule within a cell that is physically separated from chromosomal DNA and can replicate independently. The size of the plasmid varies from 1 to over 200 kbp
2. What are the 3 characteristics of plasmids that make them ideal vectors for genetic engineering? Plasmids have multiple cloning sites, bacteriophage promoters, and selectable markers for antibiotic resistance
3. What is the *ori* site on a plasmid? The *ori* is the place where DNA replication begins, enabling a plasmid to reproduce itself as it must to survive within cells
4. What does the promoter sequence do in a plasmid? The sequence of the promoter region controls the binding of the RNA polymerase and transcription factors
5. Why is having an antibiotic-resistant gene important in a plasmid? Adding an antibiotic resistance gene to the plasmid allows a scientist to easily detect plasmid-containing bacteria when the cells are grown on selective media and provides those bacteria with pressure to keep your plasmid.
6. What is bacterial conjugation? Bacterial conjugation is the transfer of genetic material between bacterial cells by direct cell-to-cell contact or by a bridge-like connection between two cells.
7. Identify A and B in the image below: B=Plasmids A=DNA



8. What is a "bacteriophage"? A virus that parasitizes a bacterium by infecting it and reproducing inside it.
9. Where do restriction enzymes come from? Restriction enzymes are found in bacteria. They recognize and bind to specific sequences of DNA, called restriction sites
10. What is the recognition site for EcoRI? 5'-GAATTC-3' 3'-CTTAAG-5'

# Genetic Technology Study Guide

**R Barnett**



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