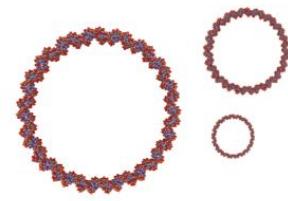


Name:
Date:

Plasmid Mapping Worksheet 1: Vocabulary



Definitions

Match the following vocabulary with their definitions

- ___ 1. A graphical representation of the genetic makeup of a plasmid.
- ___ 2. Technique used to determine nucleic acid orders.
- ___ 3. Technique used to determine general restriction sites of DNA on a plasmid map.
- ___ 4. Protein that cleaves DNA into segments at restriction sites.
- ___ 5. Technique involving using enzymes to cut DNA at specific sequences.
- ___ 6. Site at which replication is initiated.
- ___ 7. Site at which single-stranded primers bind to the plasmid DNA to initiate replication.
- ___ 8. Sequence of DNA that proteins bind to in order to initiate transcription.
- ___ 9. Extrachromosomal DNA molecule that replicates independently of the host genomic material.
- ___ 10. A segment of DNA that contains several restriction sites, so is often used for incorporating plasmid inserts.
- ___ 11. A DNA sequence that is inserted into the plasmid.
- ___ 12. Sequence upstream of a gene of interest that contains the RNA polymerase binding site, transcription start site, and TATA box.
- ___ 13. A feature in eukaryotes and archaea found in the promoter region and represents an important initiation site recognized by RNA Pol II.
- ___ 14. The joining of two DNA fragments via ligase.
- ___ 15. Gene that confers antibiotic resistance to its host.
- A. Insert
- B. Promoter region
- C. Primer binding site
- D. Origin of replication
- E. Antibiotic resistance gene
- F. Sequencing
- G. Restriction mapping
- H. Restriction digest
- I. Restriction enzyme
- J. Promoter
- K. Plasmid map
- L. Multiple cloning site
- M. Plasmid
- N. Ligation
- O. TATA box