

Download File PDF Recombinant Dna Genetic Engineering Study Guide Answers

#Jenny



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Cool! I'am really happy

#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

- B. It joins two DNA fragments together.
C. It shapes bacterial DNA into a circular plasmid.
D. It cuts DNA into restriction fragments.
8. A recombinant plasmid can be used to
- prevent recombination of genes.
 - double the number of chromosomes in a plant cell.
 - cut DNA into restriction fragments.
 - transform a bacterium.
9. What do genetic engineers use to create the "sticky ends" needed to splice two fragments of DNA together?
- an amino acid sequence
 - DNA ligase
 - restriction enzymes
 - mRNA
10. Why must a genetically engineered plasmid contain a genetic marker?
- to prevent the construction of an artificial chromosome
 - to separate cells that contain recombinant DNA from those that do not
 - to produce multiple copies of the recombinant plasmid for heat treatment
 - to break apart the circular plasmid and introduce another DNA fragment
11. Give a reason why a plasmid is useful for DNA transfer.
- IT HAS A ORIGIN OF REPLICATION THAT HELPS PROMOTE ITS OWN REPLICATION. HELPS TO ENSURE THAT THE FOREIGN DNA WILL BE REPLICATED.
12. What is a transgenic organism?
- AN ORGANISM THAT CONTAINS GENES FROM OTHER SPECIES
13. What can happen when DNA is injected into the nucleus of an animal's egg cell?
- ENZYMES THAT ARE NORMALLY RESPONSIBLE FOR REPAIR AND RECOMBINATION MAY HELP INSERT THE FOREIGN DNA INTO THE CHROMOSOMES OF THE INFECTED CELL.
14. How is a DNA molecule constructed so that it will eliminate a particular gene?
- THE TWO ENDS OF THE DNA MOLECULE ARE JOINED TO SPECIFIC SEQUENCES IN THE HOST CHROMOSOME. THE HOST GENE BETWEEN THE TWO SEQUENCES MAY THEN BE LOST OR REPLACED WITH A NEW GENE.
15. What is a clone?
- A MEMBER OF A POPULATION OF GENETICALLY IDENTICAL CELLS PRODUCED FROM A SINGLE CELL.
16. What kinds of mammals have been cloned in recent years?
- SHEEP (DOLLY), COWS, PIGS, MONKEYS, AND CATS.
- For Questions 18-22, write True if the statement is true. If the statement is false, change the underlined word to make the statement true.
- TRANSGENIC 17. An organism that contains one or more genes from another species

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