

## Questions on Genetics

a) Why is it easier to ligate sticky ends than blunt ends?

The sticky ends consist of regions of unpaired nucleotides called overhang which readily pairs with another sticky end with a complementary overhang whereas the blunt ends have their nucleotides already paired between the two strands of the DNA hence cannot be easily ligated with other nucleotides (Pedersen et al., 2014).

b) How many bases in a restriction site sequence need to be methylated to protect that site from restriction enzymes?

Only two, that is, Cytosine and Adenine of the four base pairs of the DNA can be methylated therefore enough to repress restriction. The methylation of cytosine is common in both eukaryotes and prokaryotes and differs among species while adenine methylation is common in bacteria, plants, and mammals (Wu et al., 2016).

c) What does a DNA substrate require [or have to have] to be ligated?

A DNA substrate requires four deoxyribonucleotide triphosphates (dNTPs) which are; dATP, dGTP, dTTP as well as dCTP which are cleaved forming deoxynucleotide monophosphates that get inserted into a new DNA strand. Also, the substrate requires ribonucleoside triphosphates (NTPs) which initiate and sustain the synthesis of DNA by synthesizing RNA primers and ATP. The ATP provides energy for the activation of the enzymes at the replication fork.

d) What is the value of using phosphatase when preparing substrates for a ligation?

# Genetics Questions And Short Answers

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## **Table of Contents Genetics Questions And Short Answers**

1. Understanding the eBook Genetics Questions And Short Answers
  - The Rise of Digital Reading Genetics Questions And Short Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Questions And Short Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Genetics Questions And Short Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Questions And Short Answers
  - Personalized Recommendations
  - Genetics Questions And Short Answers User Reviews and Ratings
  - Genetics Questions And Short Answers and Bestseller Lists
5. Accessing Genetics Questions And Short Answers Free and Paid eBooks
  - Genetics Questions And Short Answers Public Domain eBooks
  - Genetics Questions And Short Answers eBook Subscription Services
  - Genetics Questions And Short Answers Budget-Friendly Options
6. Navigating Genetics Questions And Short Answers eBook Formats

- ePub, PDF, MOBI, and More
- Genetics Questions And Short Answers Compatibility with Devices
- Genetics Questions And Short Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Genetics Questions And Short Answers
  - Highlighting and Note-Taking Genetics Questions And Short Answers
  - Interactive Elements Genetics Questions And Short Answers
- 8. Staying Engaged with Genetics Questions And Short Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genetics Questions And Short Answers
- 9. Balancing eBooks and Physical Books Genetics Questions And Short Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Genetics Questions And Short Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Genetics Questions And Short Answers
  - Setting Reading Goals Genetics Questions And Short Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetics Questions And Short Answers
  - Fact-Checking eBook Content of Genetics Questions And Short Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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