

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

Huangqi Zhang



Genetics Questions And Short Answers:

Embracing the Melody of Phrase: An Emotional Symphony within **Genetics Questions And Short Answers**

In some sort of consumed by displays and the ceaseless chatter of quick interaction, the melodic splendor and emotional symphony developed by the prepared term usually diminish into the background, eclipsed by the relentless noise and disruptions that permeate our lives. However, located within the pages of **Genetics Questions And Short Answers** a charming fictional value overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, that charming masterpiece conducts readers on a mental trip, skillfully unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths of this moving review, we will examine the book is key harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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