

1. What type of operon is illustrated in Model 1?

- Inducible operon

2. Consider the operon in Model 1. Other than the gene that regulates the operon, how many genes are contained within the operon?

- 3

3. In Model 1, where on the DNA strand does RNA polymerase bind to start transcription, the promoter, the operator or the terminator?

- binds to promoter

4. Which direction is the RNA polymerase moving in Model 1?

3' → 5'

5. In which diagram of Model 1 is transcription and translation occurring successfully, diagram A or diagram B? Justify your answer with evidence from Model 1.

Diagram B

Gene → protein

6. Consider the nonscience meaning of the following terms. Match the purpose with each of these sections in the operon in terms of gene transcription.

Promoter

Operator

Terminator

Spot where transcription ends

Spot where transcription begins

On/Off switch

7. Refer to diagram A in Model 1.

a. What protein does the regulatory gene in Model 1 produce?

- A repressor protein

b. To what section of the operon does this protein bind?

- binds to the operator site

c. Propose an explanation for why transcription is not occurring in diagram A.

- The repressor protein blocks RNA polymerase
so transcription of the genes cannot occur

Gene Induction In Prokaryotes Worksheet Answers

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in German Hansen Hansen H 2003 In addition to the fundamental interest in understanding modulation of prokaryotic lifestyle by DNA binding proteins As it is well known the antibiotic resistance strains of pathogenic bacteria are a major world problem so that there is an urgent need of innovative technologies to tackle it Most of the patients are infected with the virus It is an imperative of finding new alternatives to the classical way of treatment of bacterial infections and these new alternatives Nevertheless These new alternatives will find a dead end if we are unable to obtain a better understanding of the basic processes modulating bacterial gene expression Our goal is to achieve our understanding of protein DNA interactions First the topic will bring together a lot of very active research in the study of gene replication gene regulation the strategies We therefore want to acquire an in depth knowledge of some of the mechanisms of gene regulation gene transfer and gene replication Further the readers of the papers will realize the importance of the topic and will learn the most recent thinking results and approaches in the area We are fully confident that we have exceeded our expectations Now we are proud to present the final output of the topic which is the eBook It includes 24 articles contributed by 118 authors As of today March 16th January 2017 the total number of readings has reached 19 284 14 921 article views and 2 944 article downloads

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Inducible gene expression ,1995

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