

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 Expression Pogil Answer Key

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Prescott**



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