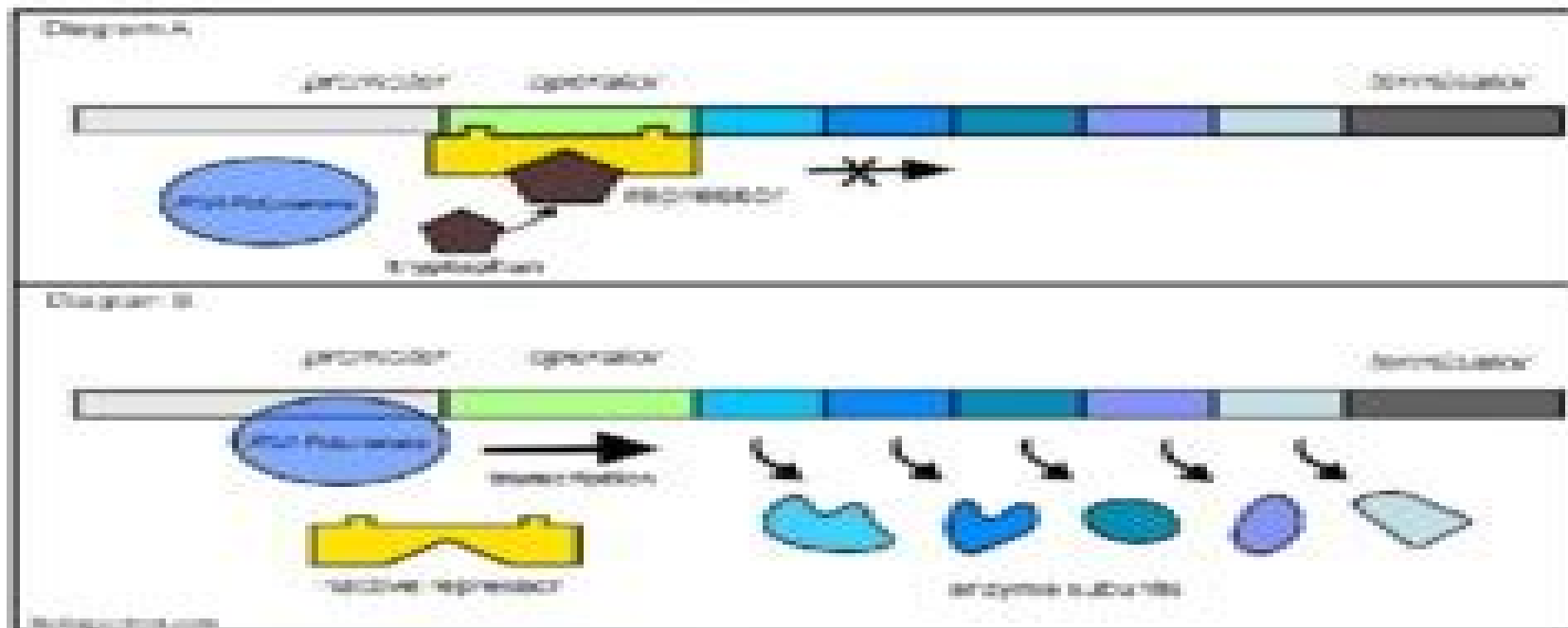


## Repressible Operons

E. coli needs the amino acid tryptophan to survive. The bacteria can make its own tryptophan if it is not present in their diet. If tryptophan is present, the bacteria does not need to synthesize it, so the trp-operon is turned off. Examine the image below showing the Trp-Operon.



9. What serves as the repressor in the trp-operon? \_\_\_\_\_
10. What happens when tryptophan is NOT present in the environment? \_\_\_\_\_
11. What is the role of RNA polymerase in this system? \_\_\_\_\_
12. How many genes are involved in the trp-operon? \_\_\_\_\_ How many proteins are made? \_\_\_\_\_
13. What would happen if the operator region of the operon had a mutation that prevented the attachment of the repressor? \_\_\_\_\_
14. What would happen if a mutation occurred in one of the trp operon genes? \_\_\_\_\_
15. Compare an inducible operon to a repressible operon.

# Gene Regulation Answers

**J Rink**



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