
Gene Regulation Introduction Handout

As you work your way through the gene regulation introduction video, answer the following questions to help you collect the relevant information.

1. Describe the purpose of the following regions involved in transcription of eukaryotic DNA.
 - I. Promoter region

 - II. Regulatory region

 - III. Enhancer region

2. What does the transcription factor repressor do? What are the ways in which they can do this?

3. Eukaryotic transcription is generally controlled by the binding of regulatory proteins to DNA sequences, rather than by the modification of RNA polymerases. Develop a hypothesis that explains the reason for this.