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Eukaryotic Gene Expression Regulation

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| **Across**  **2.** transcription factors that bind to core promoter region to help in the binding of RNA polymerase  **5.**  a specific transcription factor that binds to enhancer elements to stimulate the transcription of a gene  **6.** binds to and degrades RNA molecules  **8.** heritable changes that do not alter the DNA sequence  **9.** transcription factors that bind to different regions outside of the core promoter region and interact with proteins to enhance or repress RNA polymerase  **10.** organelle that degrades proteins  **11.**  binding sequences or sites for specific transcription factors that help increase or enhance transcription  **12.** epigenetic modification in which the addition of a methyl group to a DNA molecule leads to gene silencing  **13.** loosely packed nucleosomes that is associated with gene expression  **14.** how long an RNA molecule will be intact in the cytoplasm | **Down**  **1.** protein that binds to the promotor or enhancer region to influence transcription  **3.** tightly packed nucleosomes that tend to not express genes  **4.** epigenetic modification that involves the adding or removing of acetyl functional group which leads to gene expression  **7.** protein complex that binds with miRNA to RNA to degrade it |