Gene Expression—Transcription

How is mRNA synthesized and what message does it carry?

Why?

DNA is often referred to as a genetic blueprint. In the same way that blueprints contain the instructions for construction of a building, the DNA found inside the nuclei of cells contains the instructions for assembling a living organism. The DNA blueprint carries its instructions in the form of genes. In most cases the genes direct the production of a polypeptide, from which other more complex proteins, such as enzymes or hormones, may be constructed. These polypeptides and other molecules run the organism's metabolism and, in multicellular organisms, dictate what each cell's job is. So, what is the language of these instructions and how are they read and decoded by the cellular organielles? This activity will focus on the decoding of genes in eukaryotes.

Model 1 – Transcription



Gene Expression Translation Worksheet Answers Pogil

Jeanne Lynn Hsu

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Expression S. R. Kulshrestha, 2007

Gene Expression, translation and the behavior of proteins Lester Goldstein, David Marshall Prescott, 1980 Translation Factors in Control of Gene Expression ,1997 **Mechanisms Coupling Steps in Gene Expression** Jeanne Lynn Hsu, 2008 Eukaryotic gene expression is a multi-step process beginning with transcription of pre mRNA in the nucleus The pre mRNA undergoes several processing steps including 5 capping splicing and 3 end processing Finally spliced mRNA is exported to the cytoplasm for protein synthesis Although each of these steps requires distinct machineries they are physically and functionally coupled to one another This dissertation focuses on understanding the coupling among steps in gene expression from transcription to translation In Chapter 2 I describe the development of a mini nuclear extract method combined with RNA interference to determine the functions of specific proteins in the coupled RNAP II transcription splicing reaction The feasibility of this method was demonstrated by knocking down two model proteins the conserved splicing factors U1C and Slu7 My data indicate that the knockdown mini nuclear extract is a rapid and general in vitro strategy for determining the functions of specific proteins in gene expression as well as in other cellular processes In Chapter 3 I investigate the function of eIF4AIII a translation initiation like factor present in the nucleus My work showed that eIF4AIII is recruited to spliced mRNPs and is a component of the exon junction complex which is a protein complex recruited upstream of exon junctions during splicing In addition my work indicated that exon junction complexes are recruited to every exon junction present in the mRNA Finally eIF4AIII as well as a translation factor DDX3 co localizes with splicing factors in nuclear speckle domains Thus eIF4AIII and DDX3 may be recruited to mRNA during splicing in the nucleus and then function in translation related processes in the cytoplasm Gene Expression ,2021 Our Walkthrough Guide designed to teach the Level 2 Gene Expression external with helpful images and diagrams Our Walkthrough Guide includes Full explanations of enzyme synthesis from transcription to translation An introduction to metabolic processes and what happens to them when enzymes stop working Advice to tackle specific exam guestions including wording and expected answers Each section includes Stop and Checks and Quick Questions to test parts of your understanding that need work and to help you study smarter not harder All of the answers including how we got there are available online Publisher description Gene

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