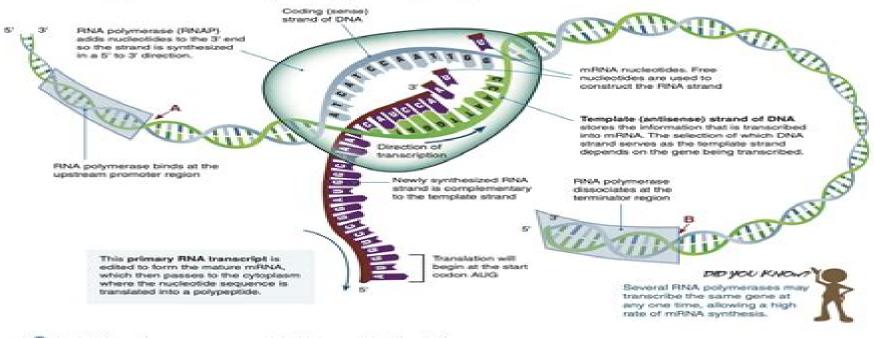
116 Transcription in Eukaryotes

Key Question: What is the purpose of transcription, where does it occur, and what are the key steps in the process?

Transcription is the first stage of gene expression. It takes place in the nucleus and is carried out by the enzyme RNA polymerase, which rewrites the DNA into a primary RNA transcript using a single template strand of DNA. The protein-coding portion of a gene is bounded by an upstream start (promoter) region and a downstream terminator region. These regions control transcription by telling RNA polymerase where to start and stop transcription. In eukaryotes, nonprotein-coding sections called introns must first be removed and the remaining exons spliced together to form the mature mRNA before the gene can be translated into a protein. This editing process also occurs in the nucleus.

Transcription is carried out by RNA polymerase (RNAP)



- 1. (a) Name the enzyme responsible for transcribing the DNA: ____
 - (b) What strand of DNA does this enzyme use? __
 - (c) Is the code on this strand the same as or complementary to the RNA being formed: _____
 - (d) Which nucleotide base replaces thymine in mRNA? _
 - (e) Explain what is represented by points A and B on the diagram: _____
- 2. (a) In which direction is the RNA strand synthesized?
 - (b) Explain why this is the case: __
 - (a) Why is AUG called the start codon? ____
 - (b) What would the three letter code be on the DNA coding strand? ___



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