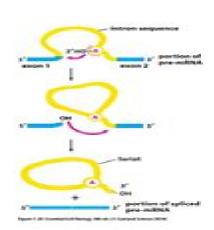
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Chapter 7: The Central Dogma: DNA → RNA → protein

- DNA → RNA is called transcription: has 4 steps: Binding, Initiation, Elongation, Termination
- 2. Transcription in Eukaryotes:
  - Have 3 polymerase (meanwhile prokaryotes only have 1): RNA polymerase II is most popular being used.
  - Lots of different "factor" involved
  - Occur in the nucleus (meanwhile prokaryotes occur in cytoplasm)
- 3. RNA processing:
  - In Prokaryotes: always ready to be translate
  - In Eukaryotes: initial product is called "pre-mRNA".
    - Pre-mRNA structure:
      - 5'CAP structure
      - Poly-A tail added
      - Splicing of coding sequence together (exons, introns)
    - RNA processing Enzymes are on the RNA polymerase
- The 5' CAP = 7-methylguanosine (7-MG)
  - Protect the end of the mRNA from degradation
  - Is required for translation of the mRNA.
- Poly-A tail = a long run of AMPs added to the 3' end of the pre-mRNA.
- Most eukaryotic genes containing blocks of coding sequence (exons) and non-coding sequence (introns) (intron = intervening sequence)
  - No introns in bacteria genes, but most eukaryotic genes contain introns
  - Human b-globin gene has 3 introns, human factor 8 gene has
     26 introns
- Both exons and introns are present in the pre-RNA transcript, but the introns are removed by RNA splicing.
- 8. The Lariat model of intron splicing (pic)
- 9. snRNP and Spliceosomes cut out introns and join exons together



# **Bio Study Guide The Working Cell**

**R Pring** 

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