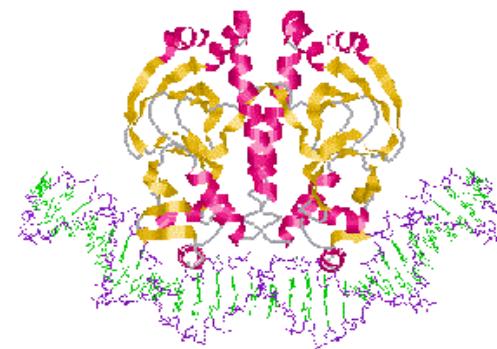


Differences between prokaryotes and eukaryotes transcription



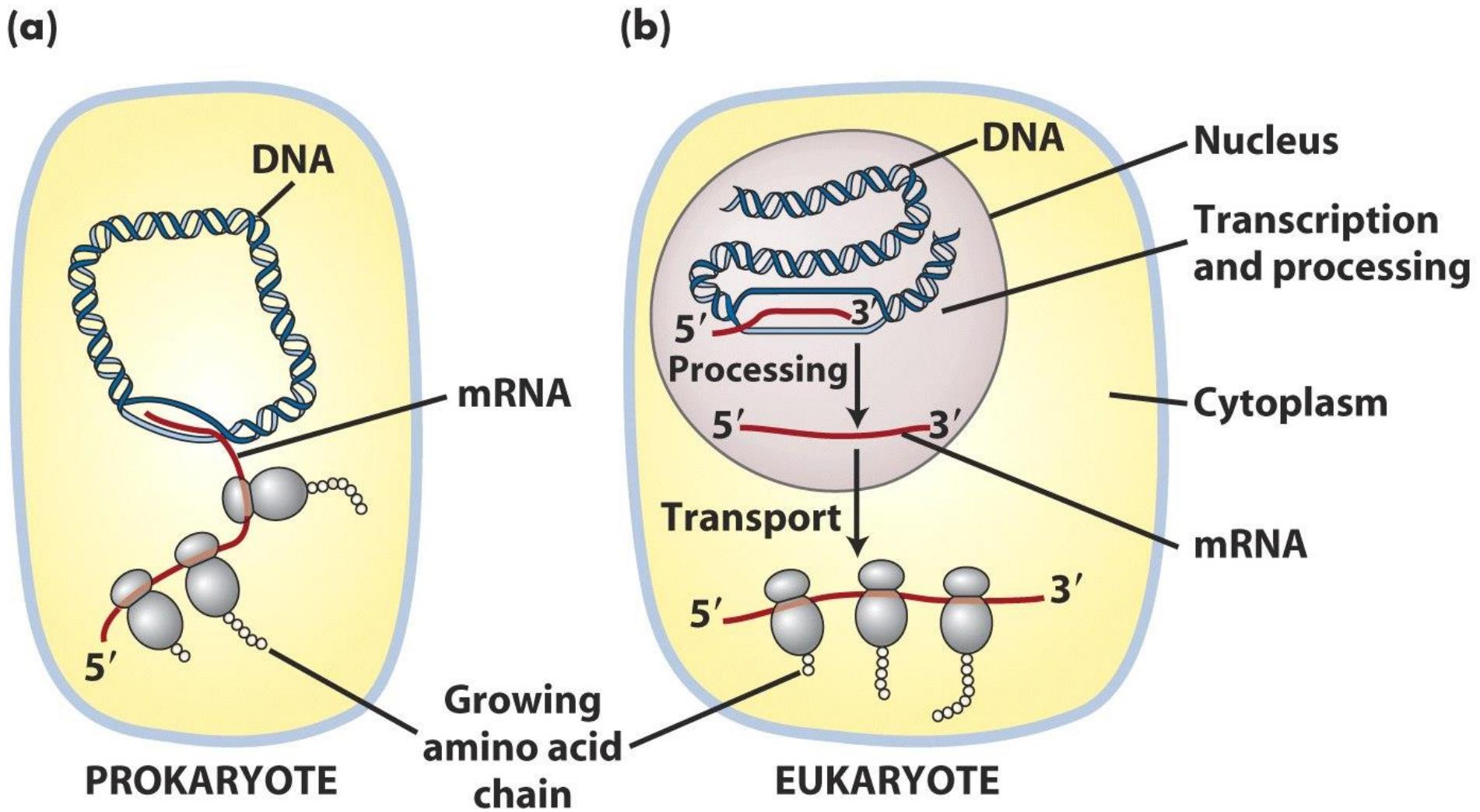
Prof. Dr. İsmail AKYOL
Prof. Dr. M. Ali YILDIZ
Prof. Dr. M. Muhip ÖZKAN
Ankara Üniversitesi

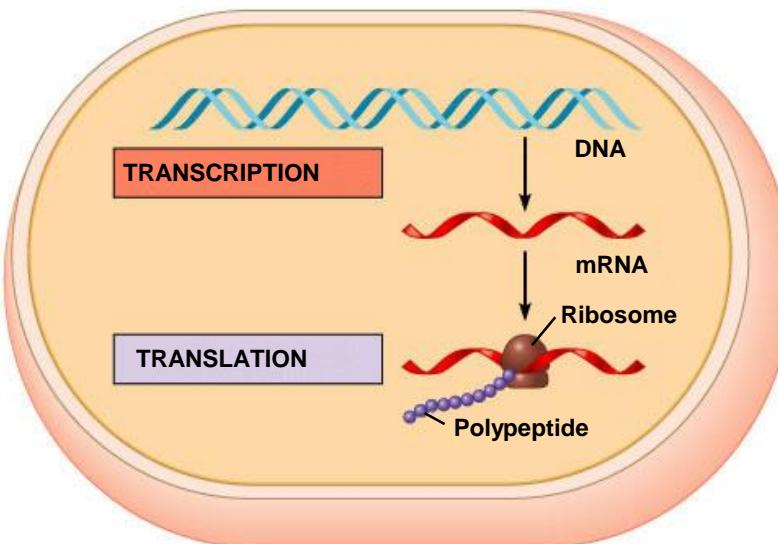


Outline of course

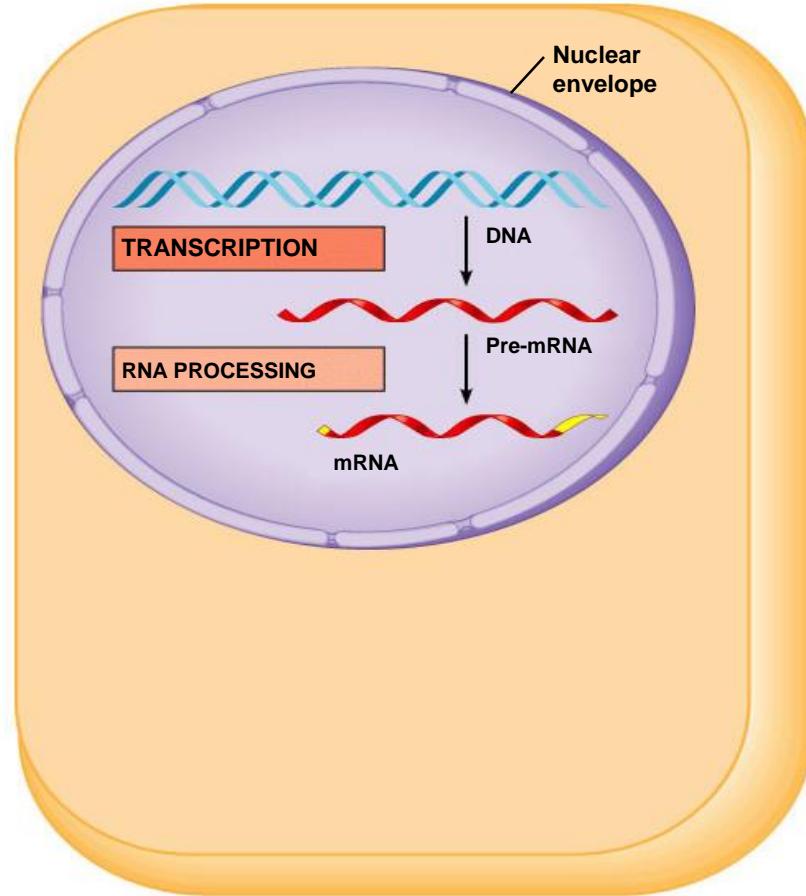
- Eukaryotic promoter
- Capping
- Polyadenin addition
- Intron and Exon
- Splicing
- Spliceosome

Place of transcription

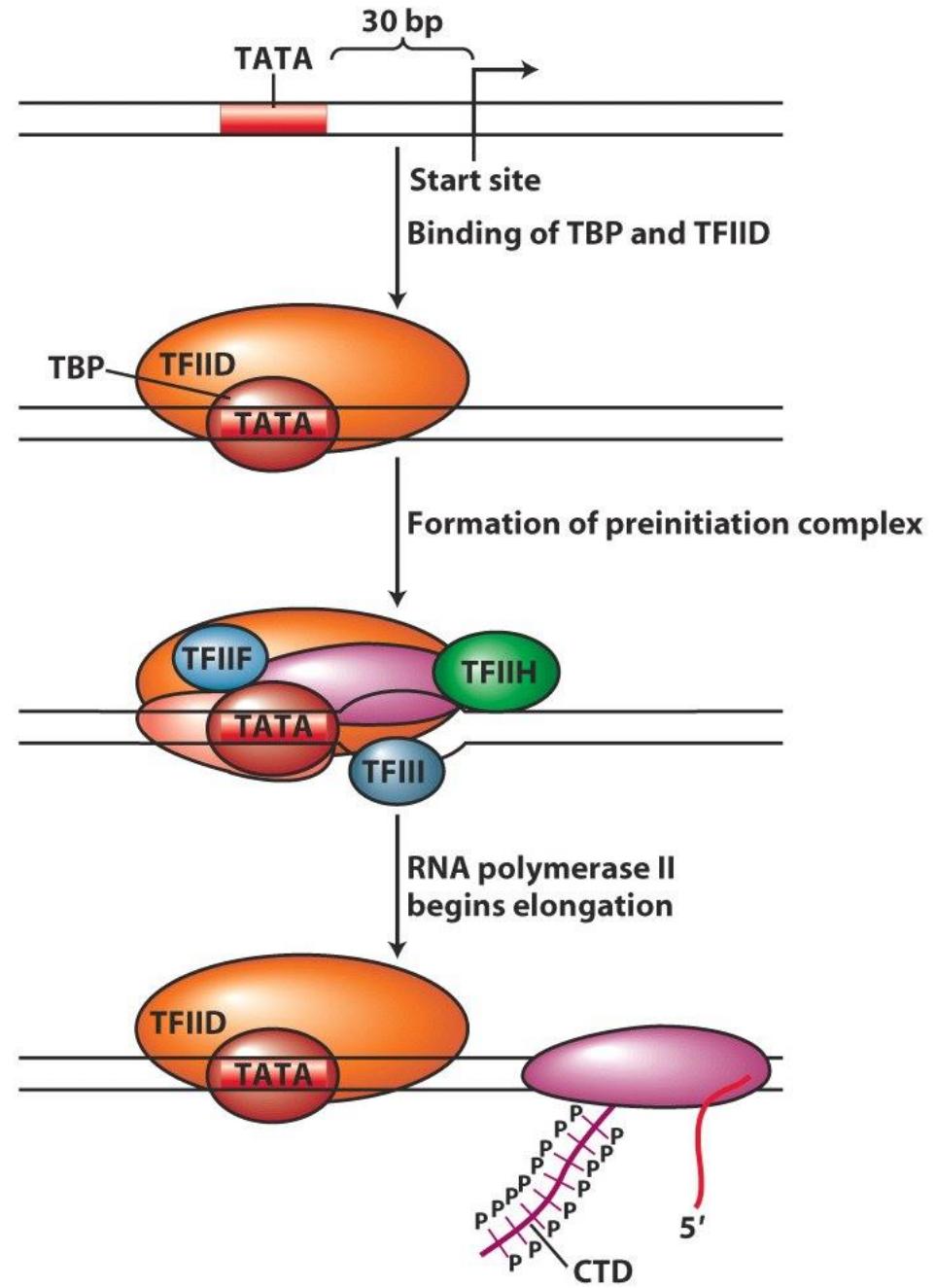




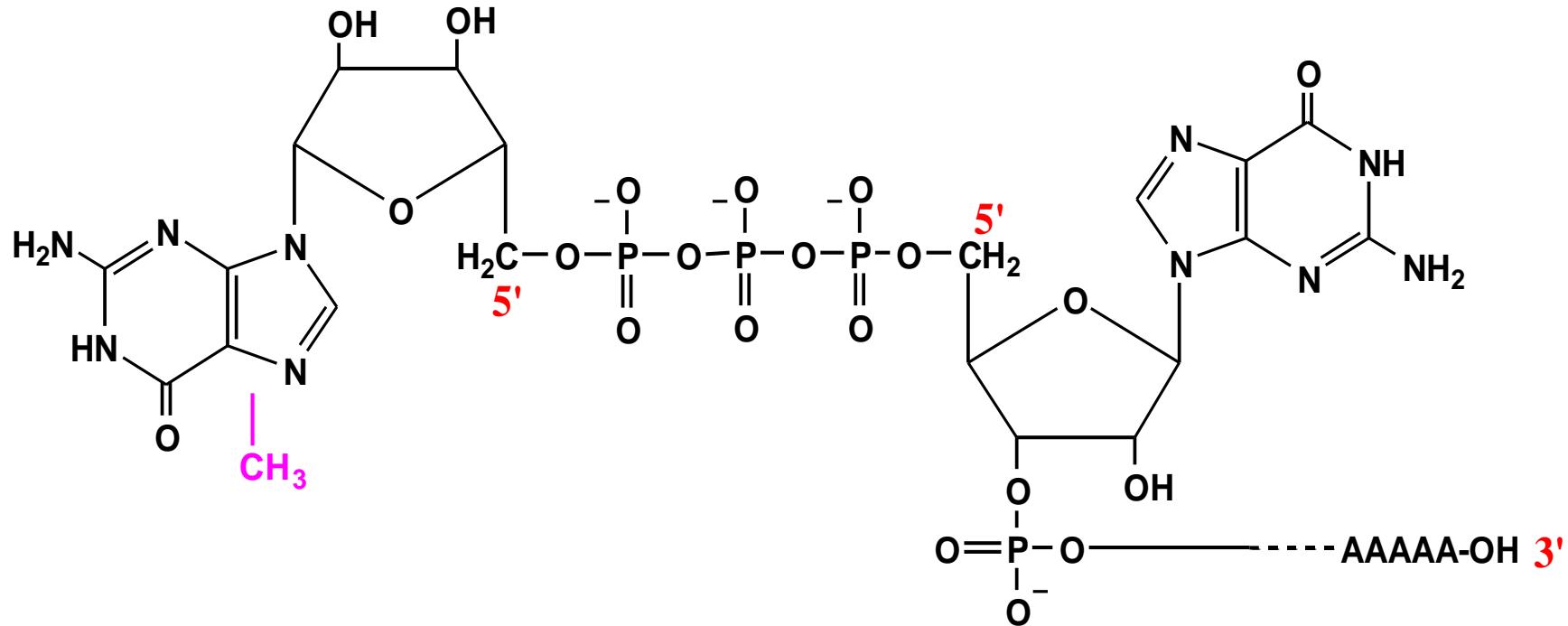
(a) Prokaryotic cell



(b) Eukaryotic cell

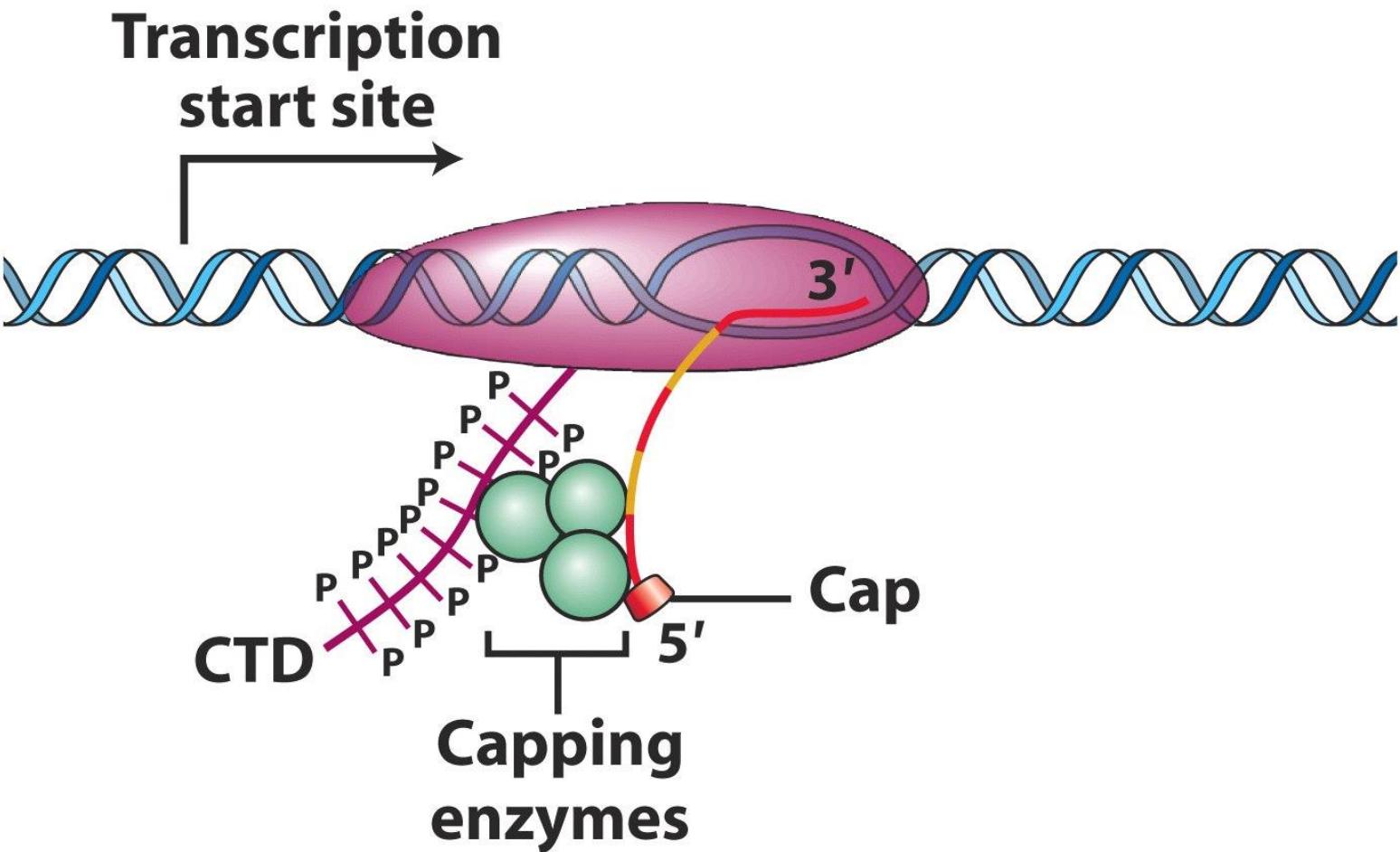


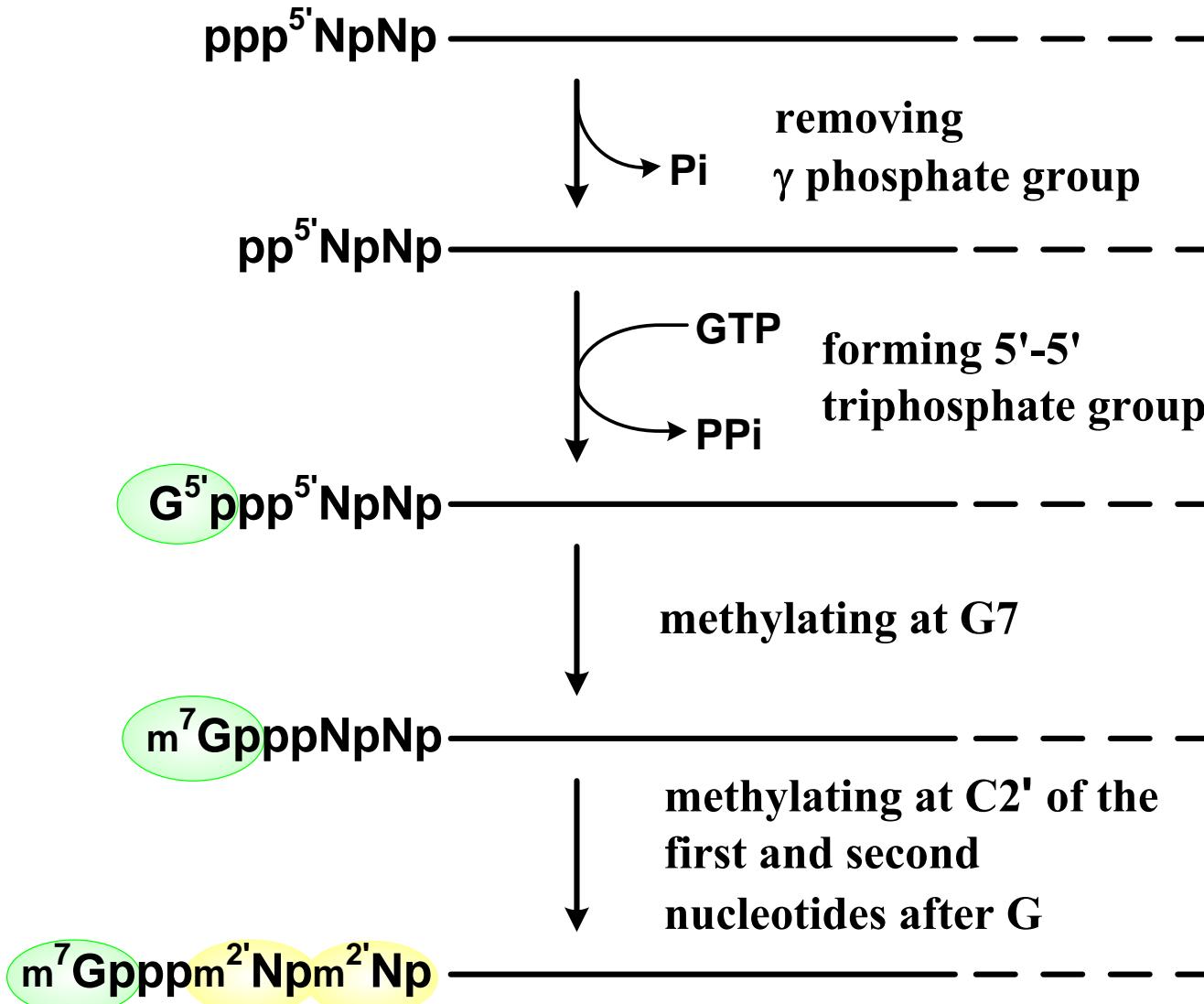
5'- Capping

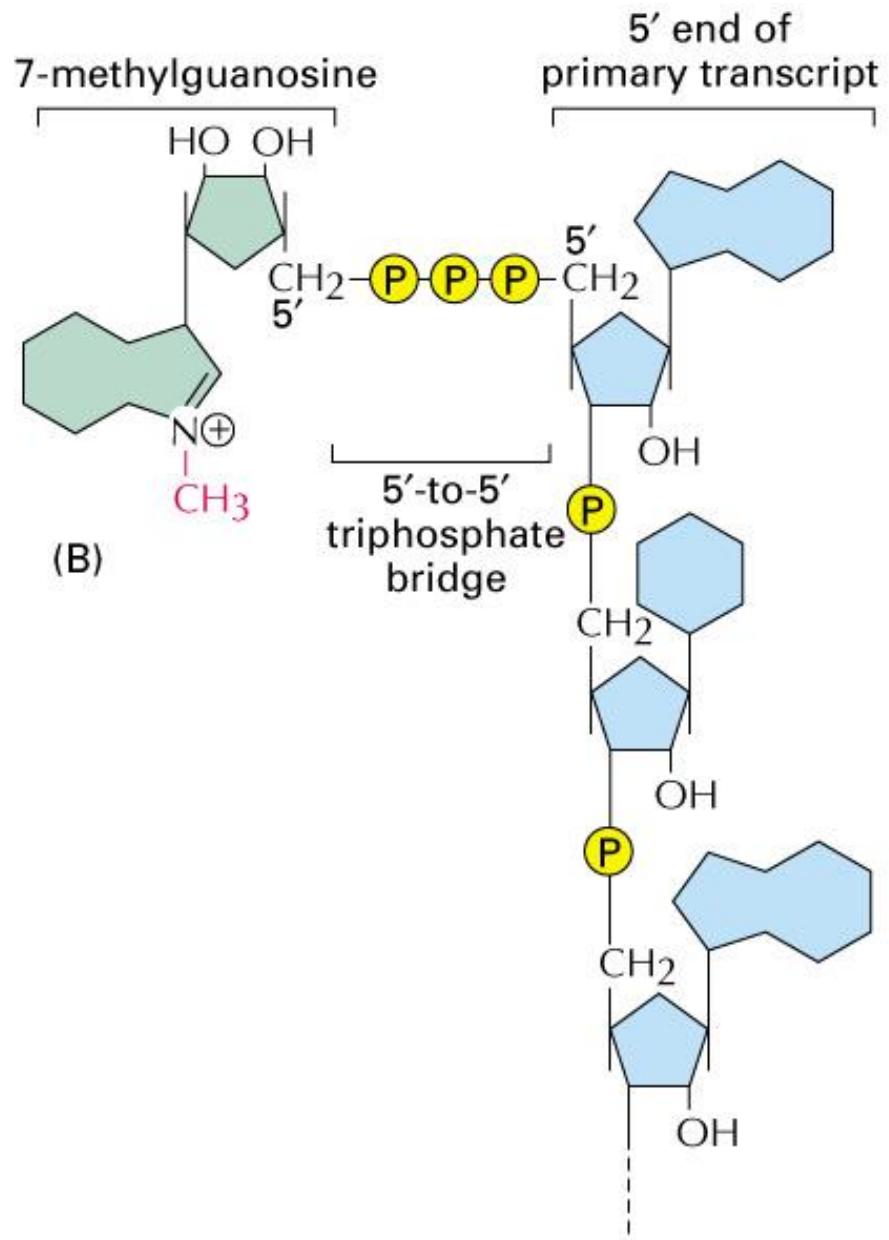


$\text{m}^7\text{GpppGp-----}$

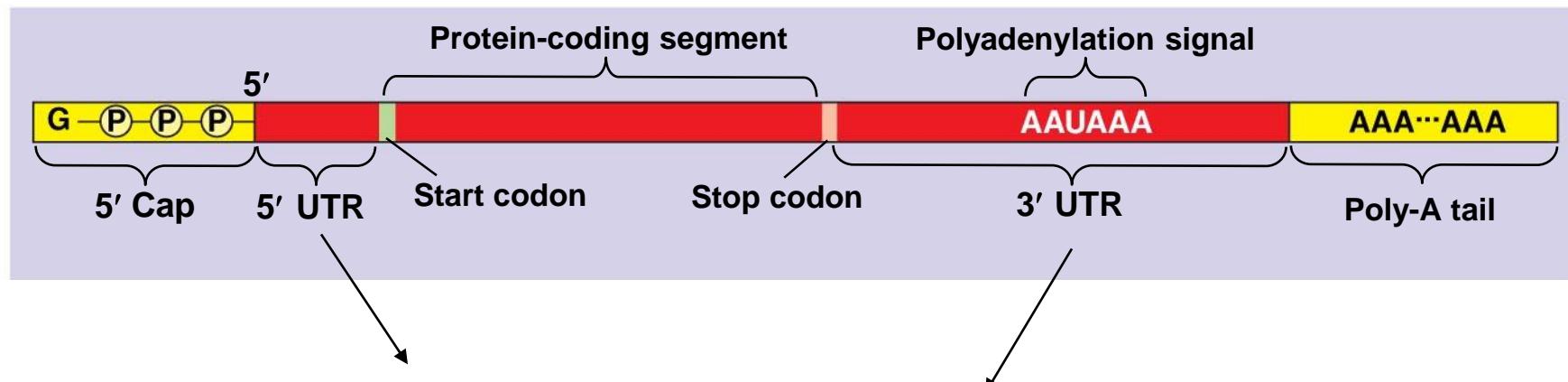
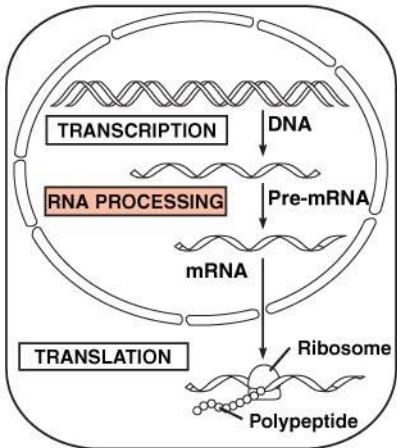
Capping





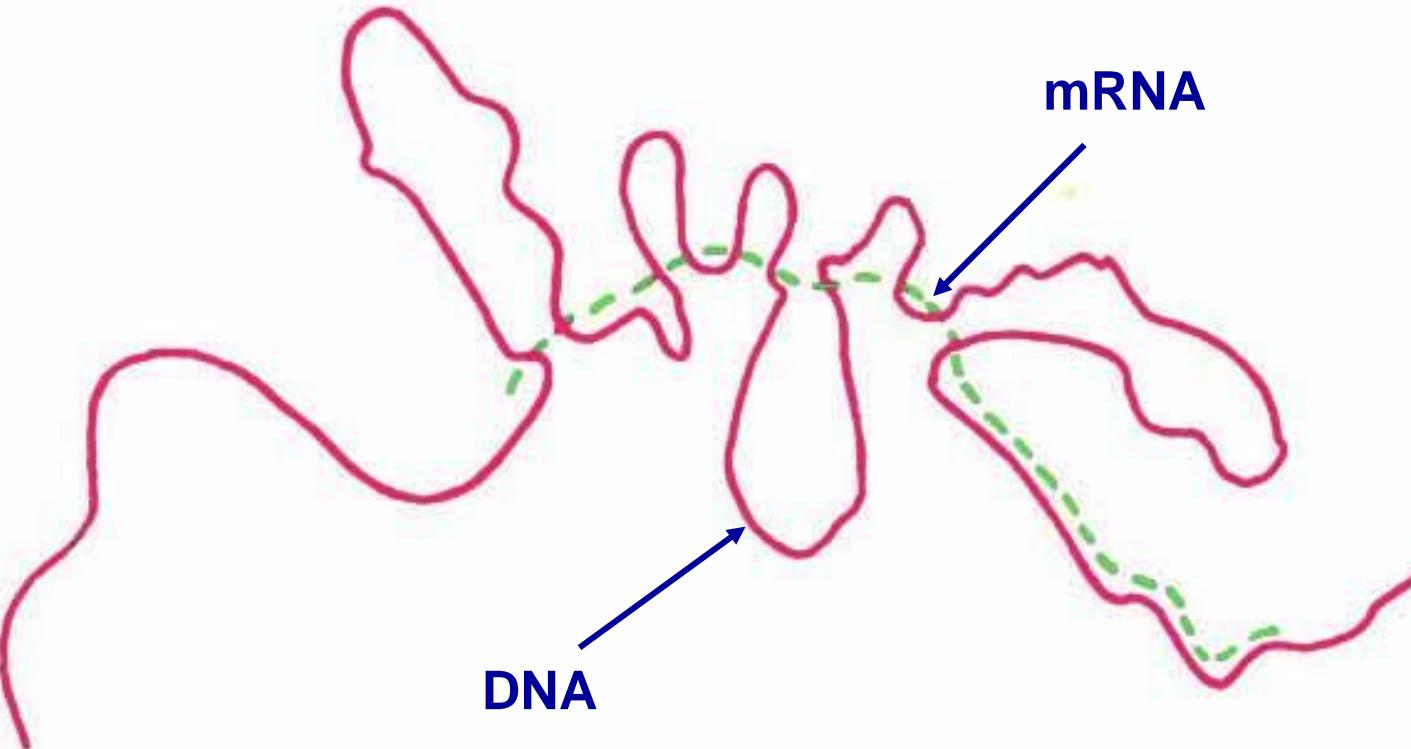


Eukaryot mRNA structure

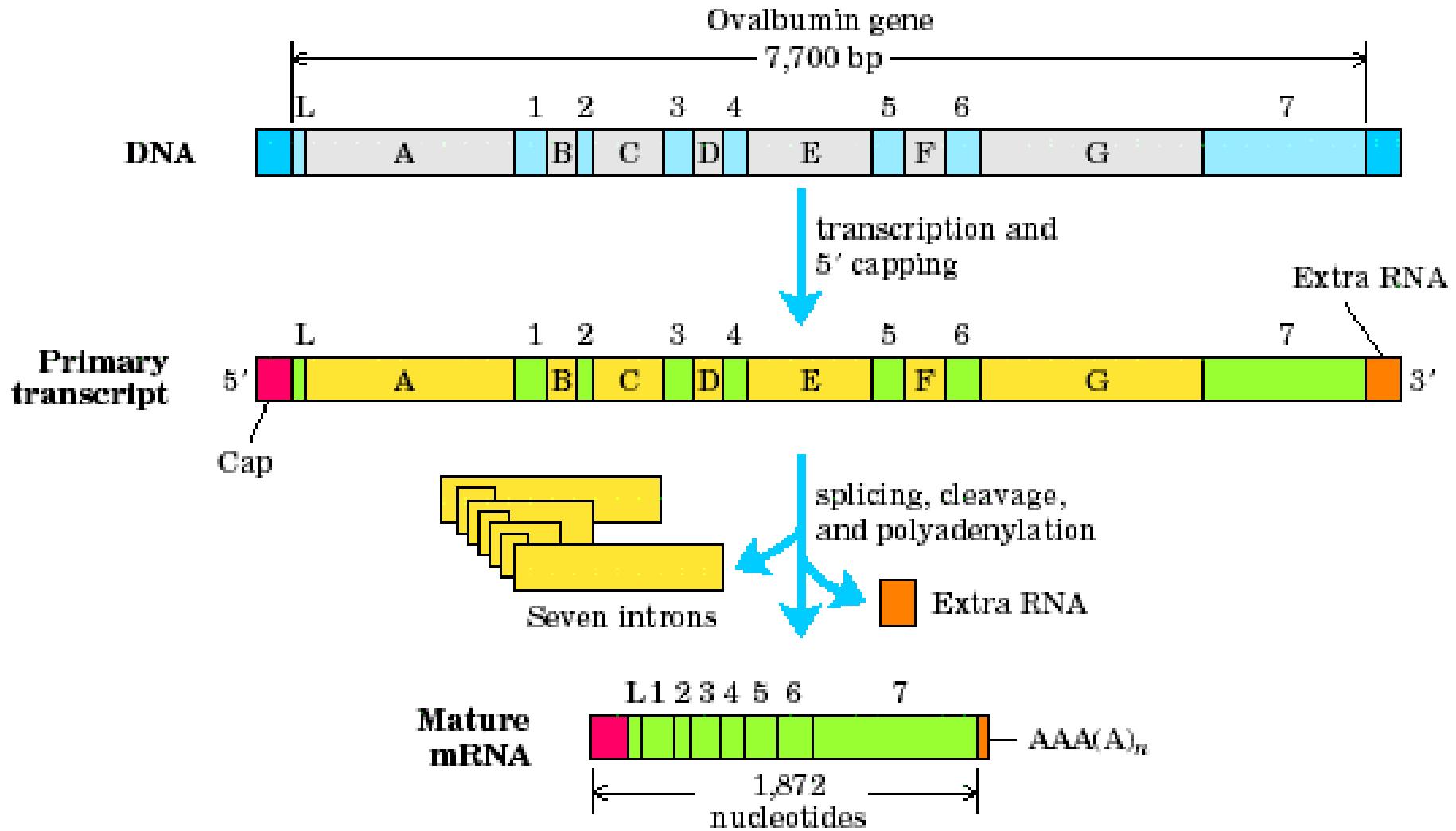


UTR: untranslated regions

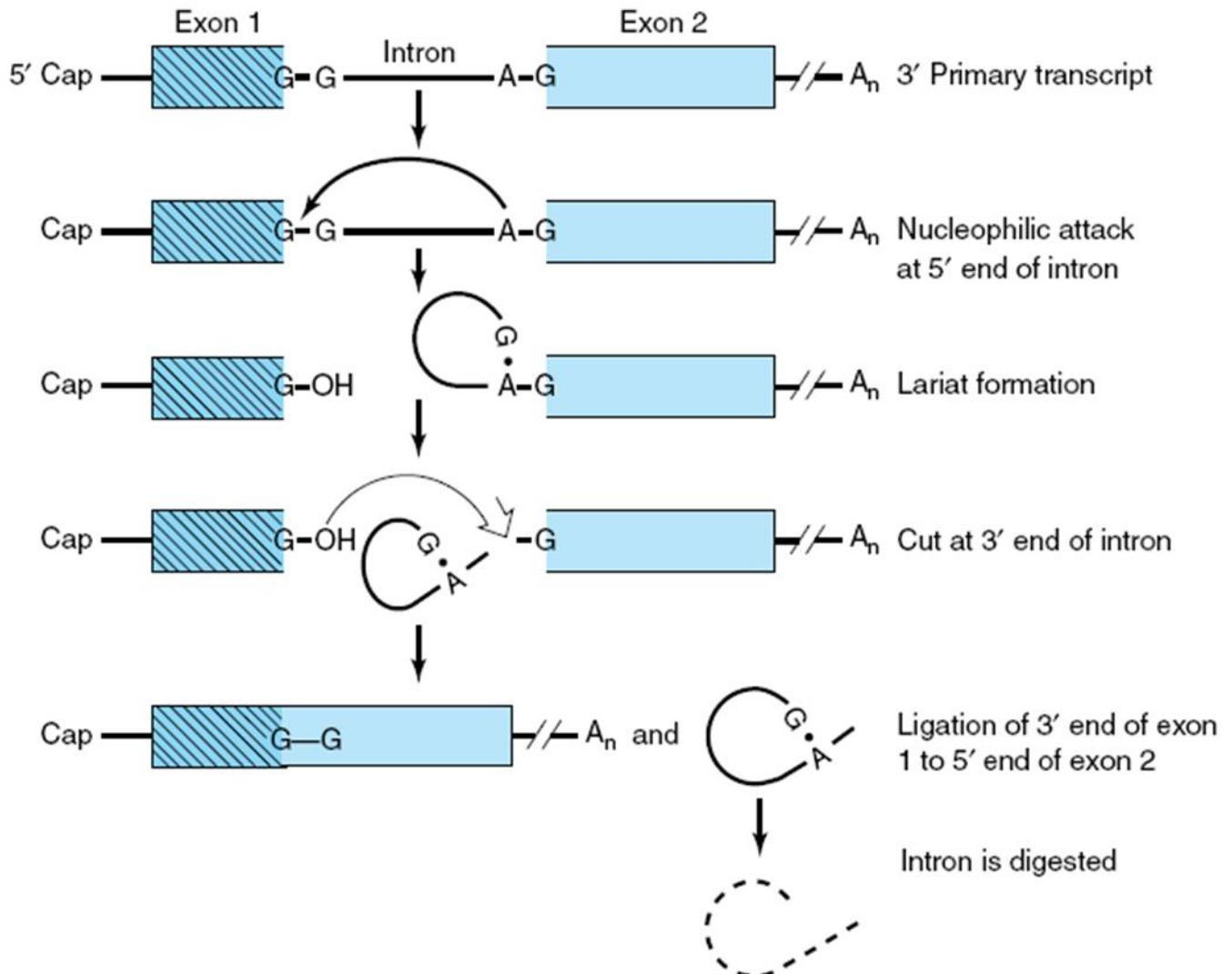
mRNA splicing

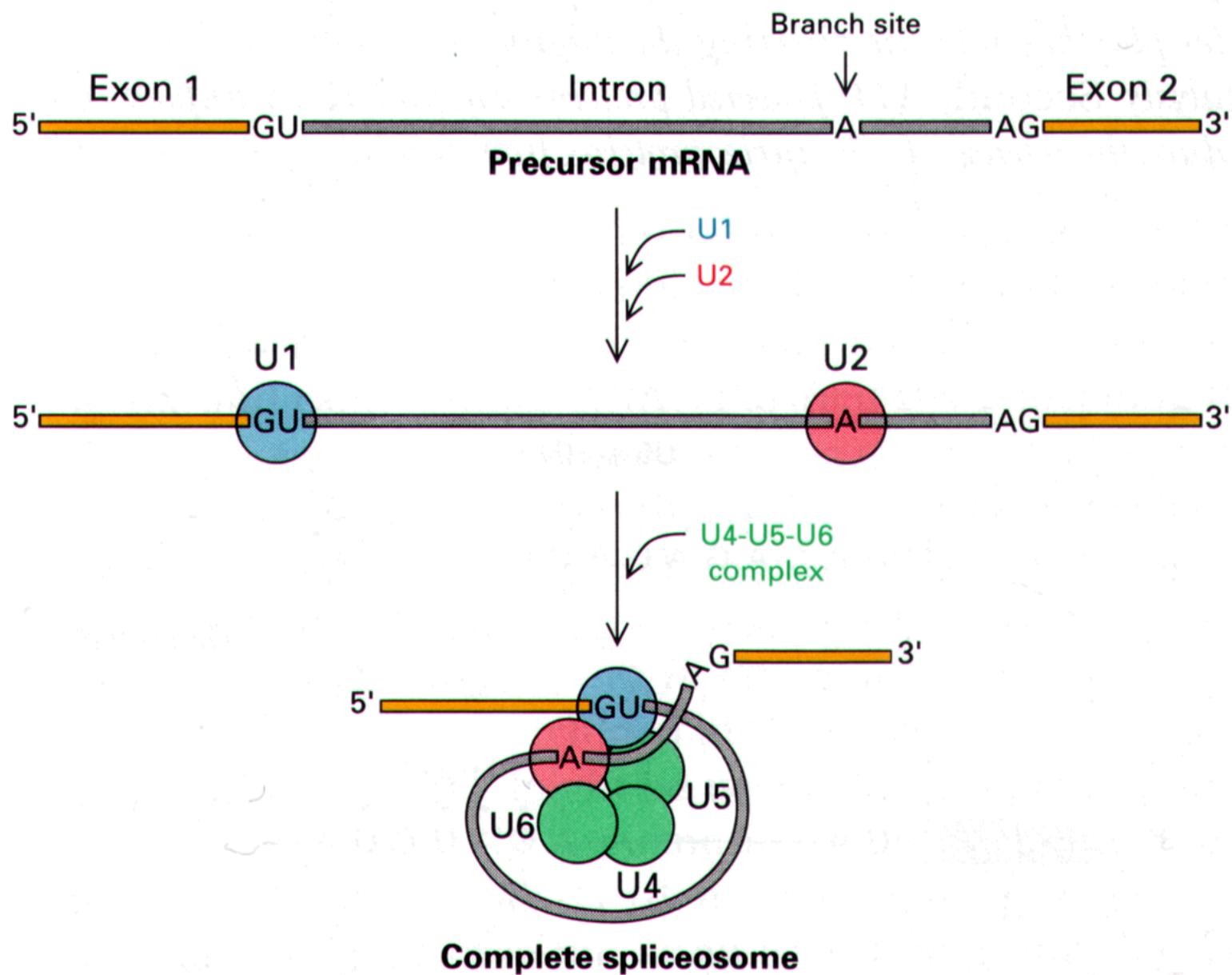


mRNA splicing

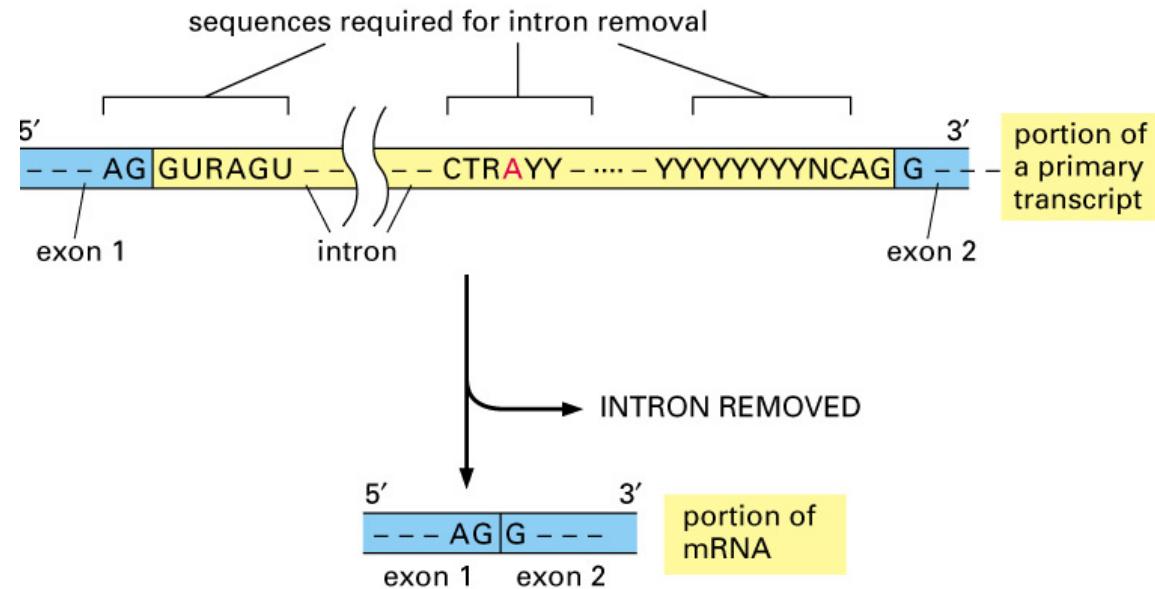
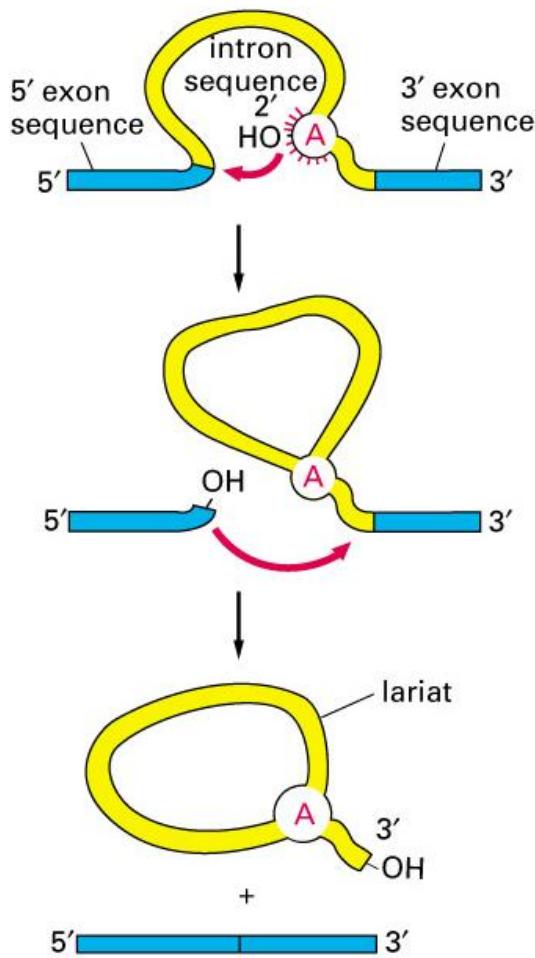


Splicing mechanism





RNA Splicing



Spliceosome

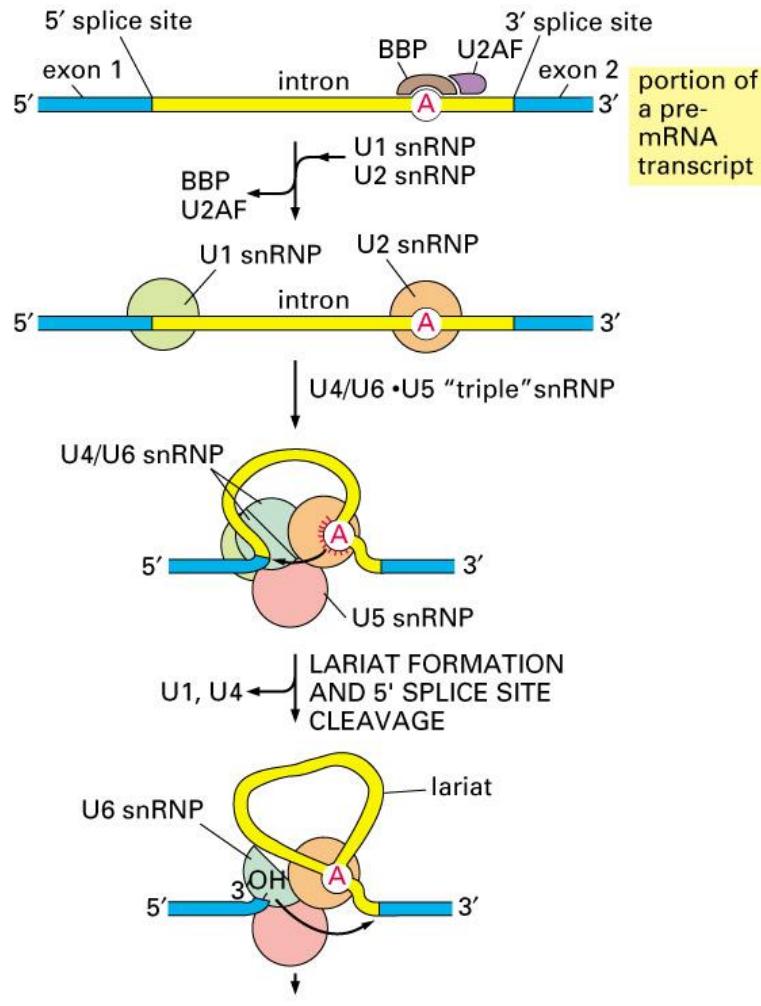


Figure 6–29 part 1 of 2. Molecular Biology of the Cell, 4th Edition.

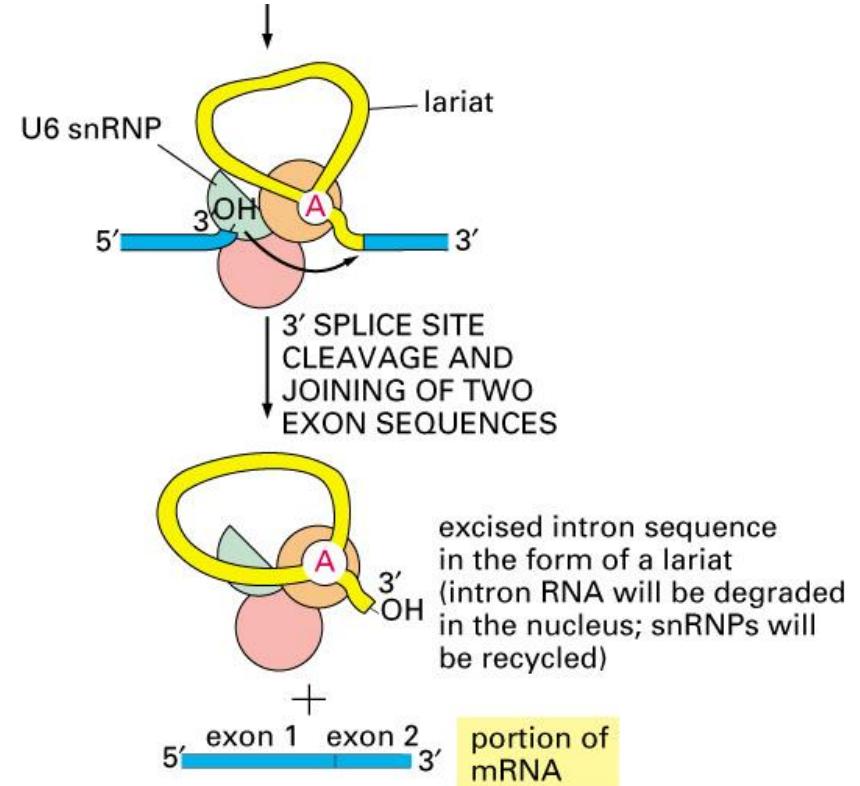


Figure 6–29 part 2 of 2. Molecular Biology of the Cell, 4th Edition.

