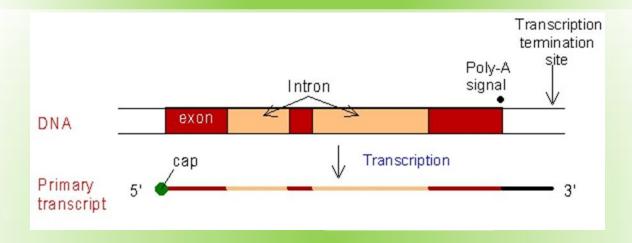
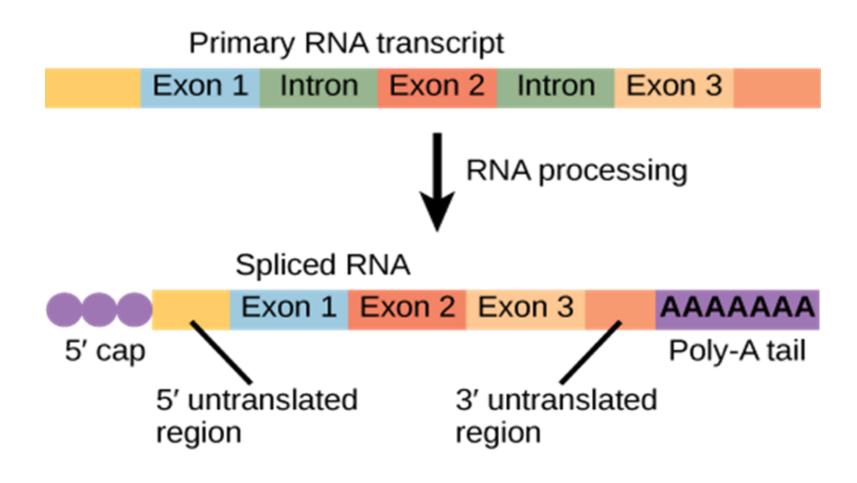
RNA PROCESSING

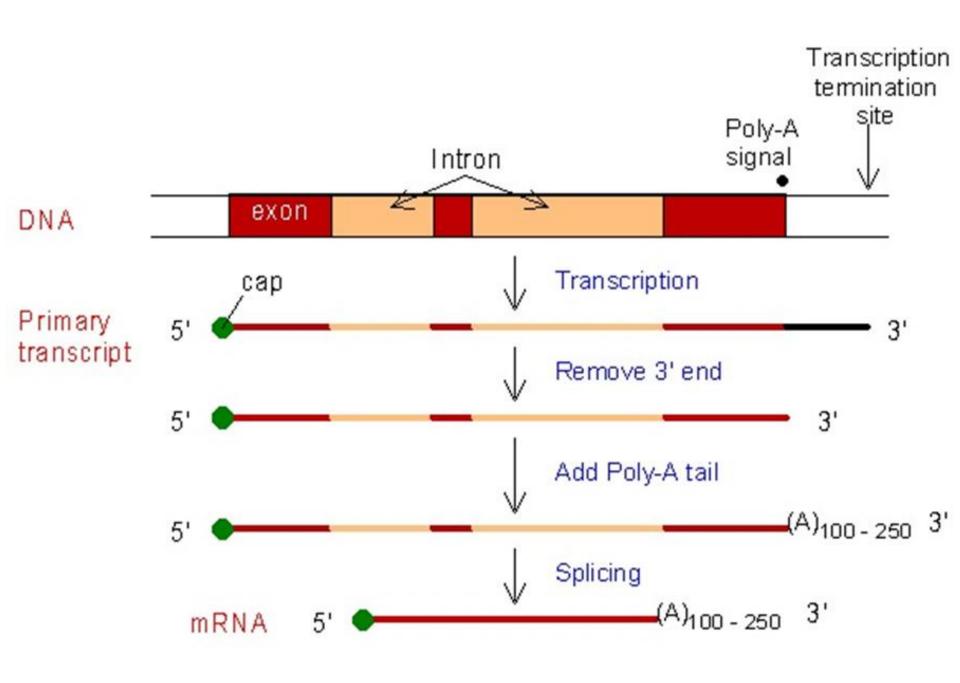


- **Primary transcript (hn RNA) is a large molecule.**
- **Small percentage of his molecule enters cytoplasm for translation.**
- **❖** hn RNA destined to produce mRNA undergo RNA processing.

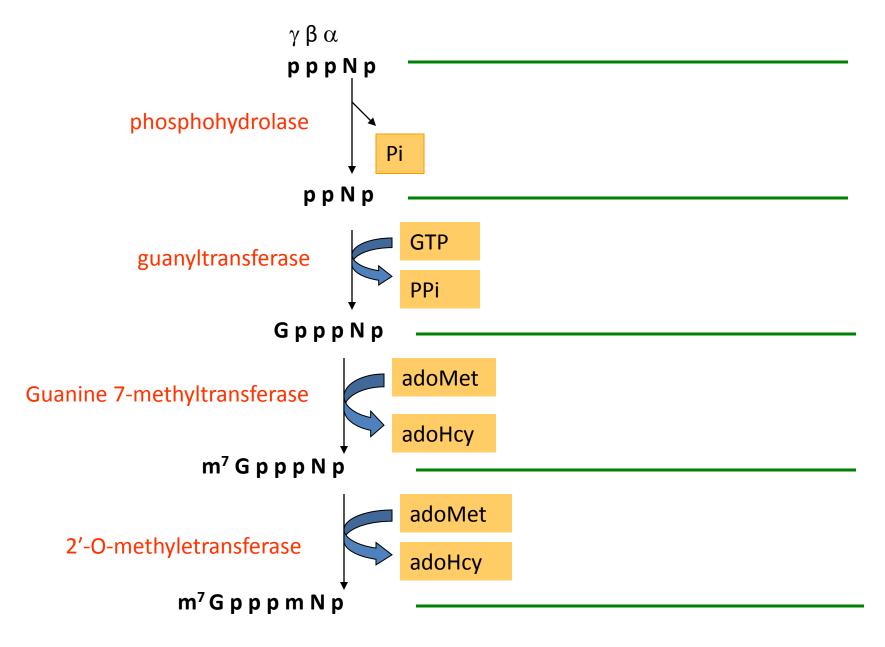
Processing include:

- 1. Modification of 5' end by capping (addition of 7-methyl Guanine).
- 2. Modification of 3' end by polyA tail after enzymatic cleavage.
- 3. Splicing out of intron sequences.

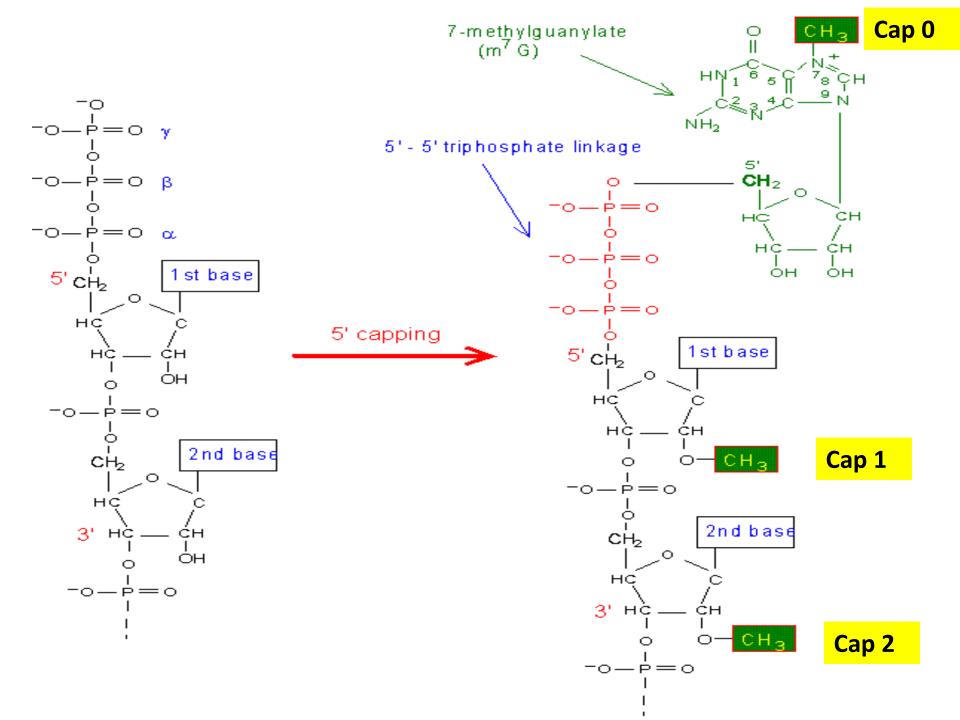


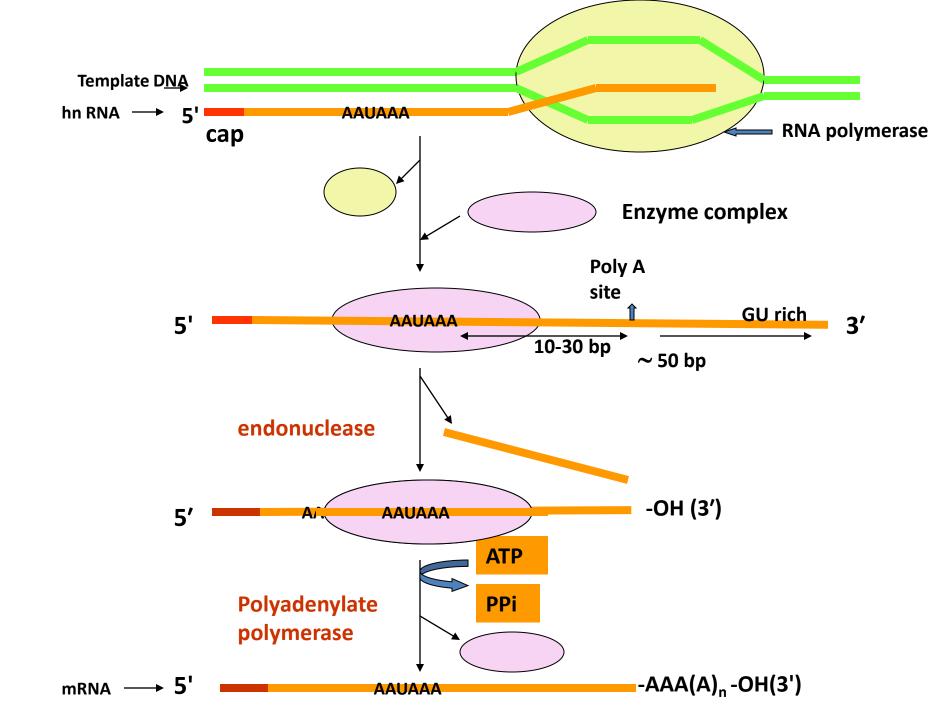


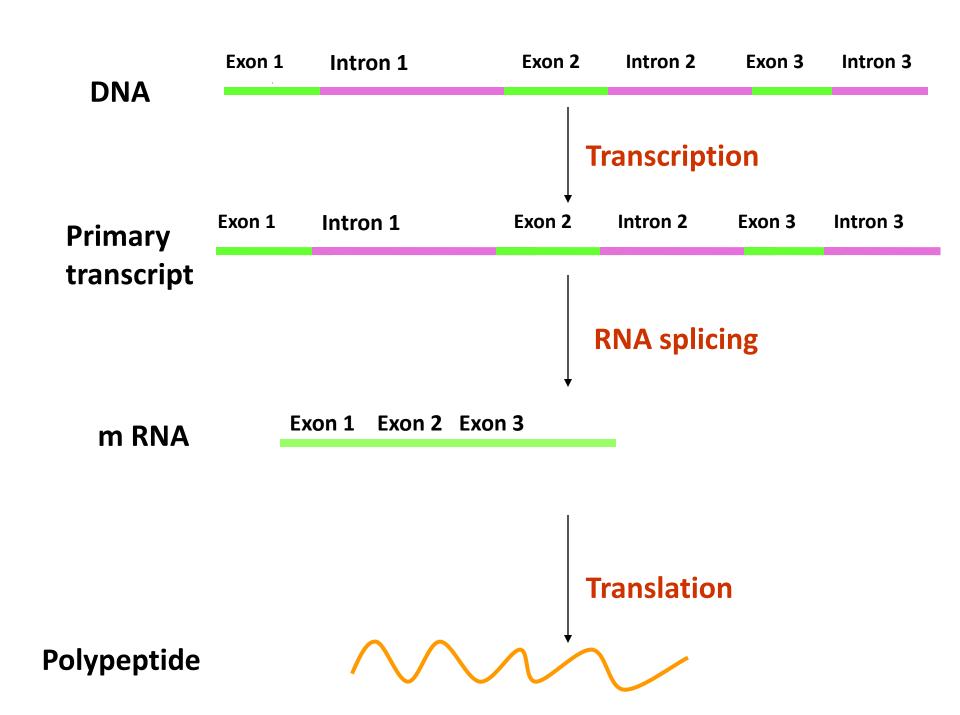
5' end of RNA with Triphosphate group



5' end of RNA with cap







Intron types

	Group I	Group II	Group III	Group IV
Found in :	some nuclear,	mitochondrial,	nuclear mRNA.	Certain
	mitocondrial,	chloroplast		tRNA
	chloroplast	mRNA.		
	genes coding			
	for rRNA.			
Requirements	G-nucleoside/	2'-OH gr. Of	RNA protein	ATP
	nucleotide	an A residue	complex;	
		within intron	snRNA: U ₁ ,U ₂	<i>y</i>
		itself	U ₄ ,U ₅ & U _{6.}	

