

5' Capping / 5' processing mRNA mRNA mRNA processing

- 1) Protection of mRNA degradation
- 2) Transport of the mRNA from nucleus to cytoplasm.
- 3) Binding of ribosome with mRNA to initiate translation.

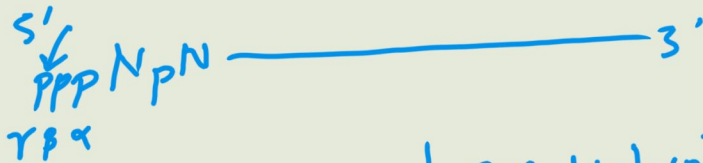
5' capping -

Capping Apparatus

Capping enzyme

dimeric protein

RNA triphosphates

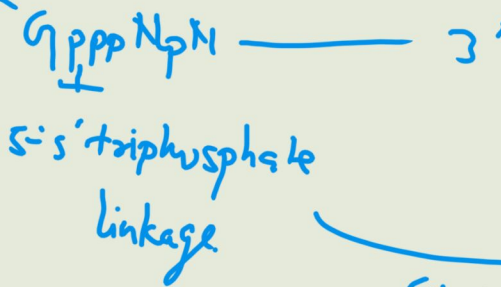


RNA triphosphates



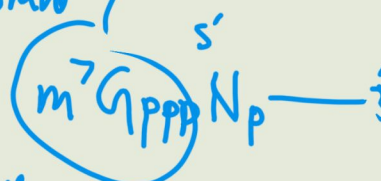
Guanylyl transferase

Guanylyl transferase



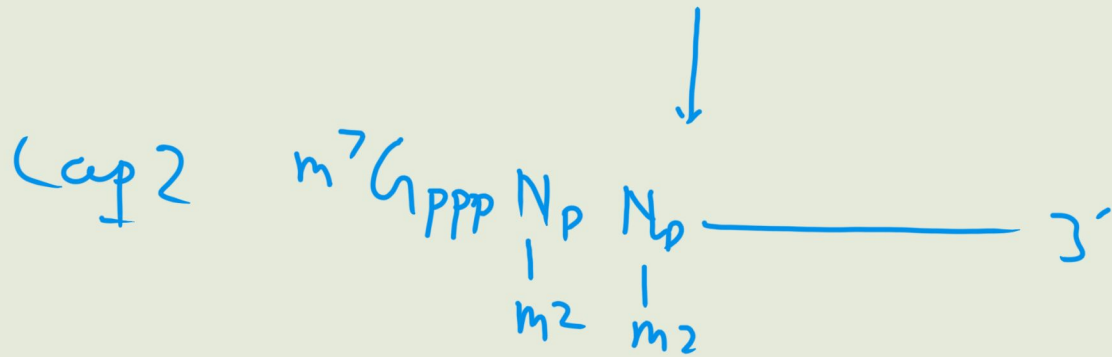
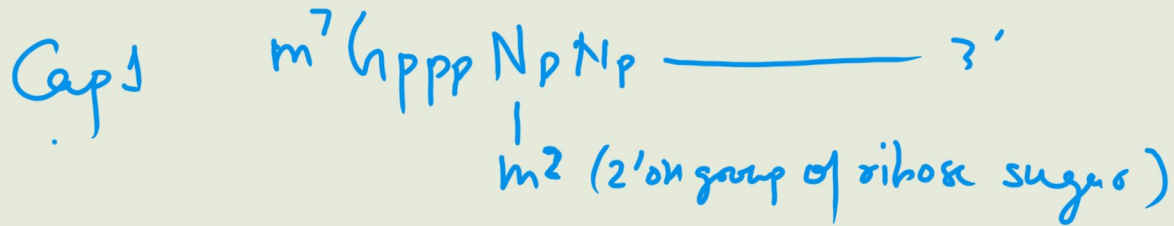
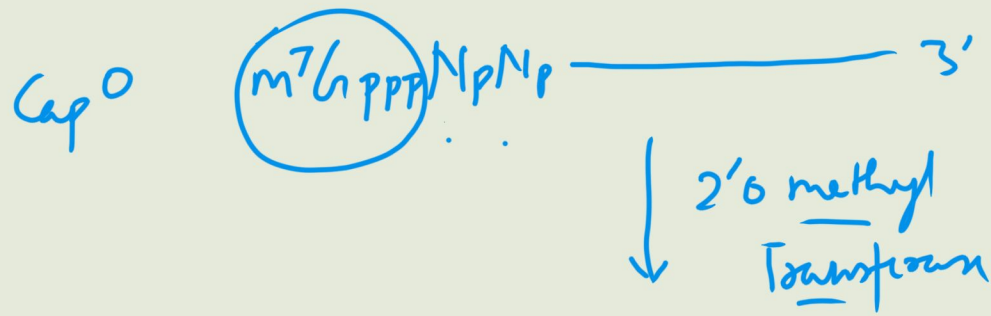
S-adenosyl Methionine

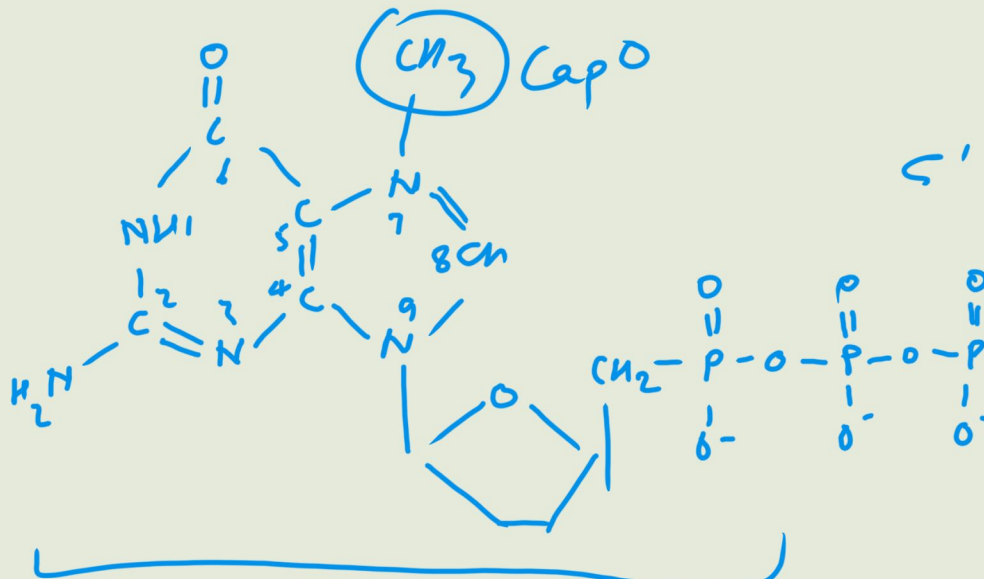
Guanylyl 7 methyl Transferase



Cap⁰







Guanylyl

5'-5' Triphosphate linkage

Guanylyl transferase

5'

