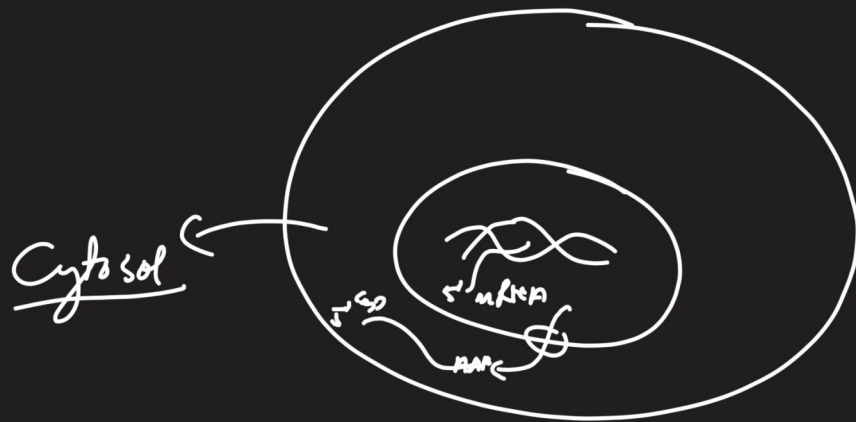


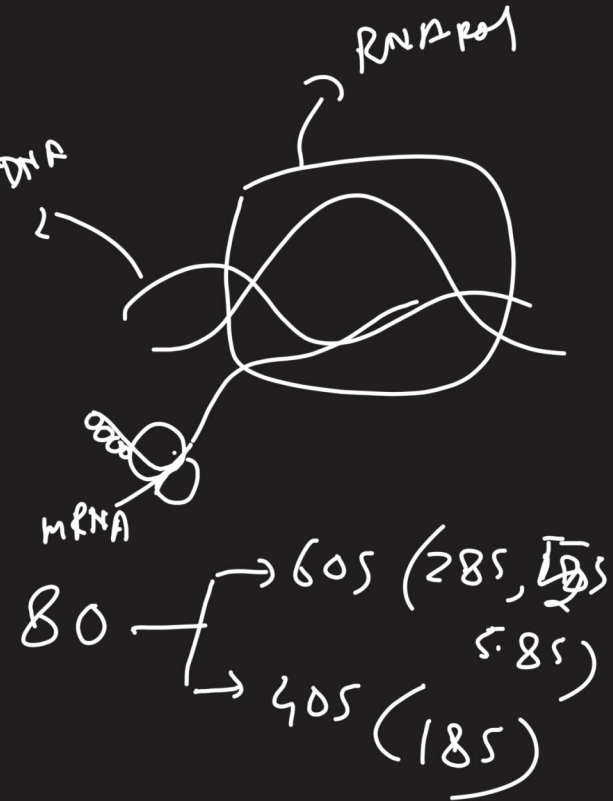
Translation in Eukaryotes

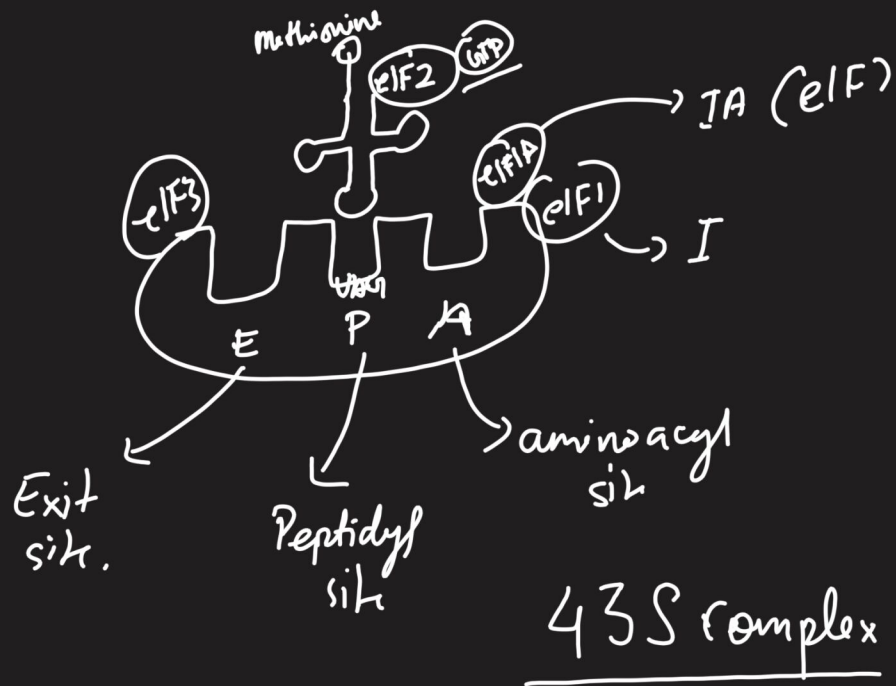
12 initiation factors.

eIF (eukaryotic initiation factors)

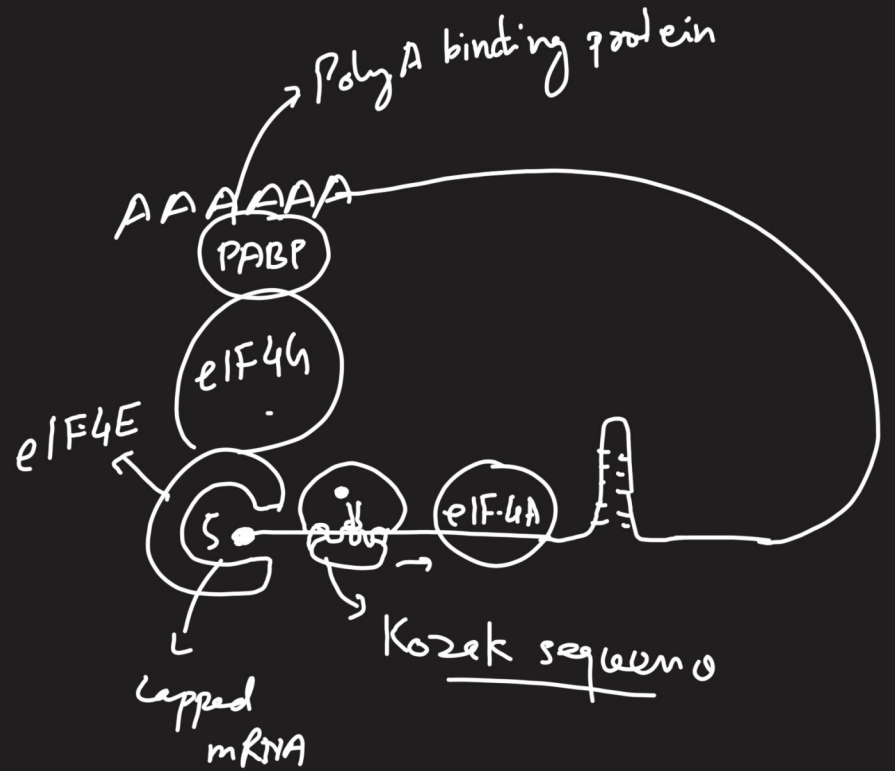


Ribosome →





eIF2-GTP



43S complex binds to the 5' end of mRNA and scan for UAG.

60S subunit + eIF5B(GTP) → hydrolysis

Elongation

eEF1 + GTP → it will bring the charged t-RNA to A site.
eEF2

{ EF-Tu
{ EF-Ts

↳ Translocation
↳ GTP binding protein.
↳ Translocation.

EF-G
↳ Translocation

Termination



Class I RF



eRF1

Class I { RF-I
RF-II

Class II { RF-III



UAA, UAG, UGA

stop codon

One GTP will be utilized for termination.

Q:- How much ATP/GTP will be utilized for the translation of 100 amino acid polypeptide chain? (Protein)