

* Circularization of mRNA during translation

→ eIF4F binds to mRNA 5'-7methyl guanosine cap upstream of translation initiation codon [AUG] with high affinity & poly(A) binding protein [PAB] with high affinity.



PAB is bound tightly to mRNA 3'-polyA tail, circularization results.

- Multiple 80S ribosomes that are in process of translating circularized mRNA into protein, forming polysome.
- Upon encountering termination codon, translation termination occurs leading to release of newly translated protein & dissociation of 80S ribosome into 60S & 40S subunits.
- Dissociated ribosomal subunits can recycle through another round of translation.