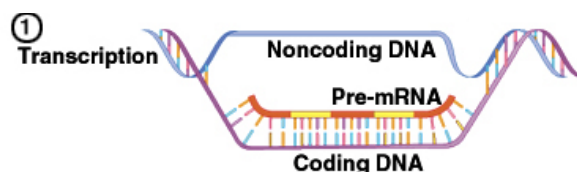


Sesión 8: Transcripción y Traducción

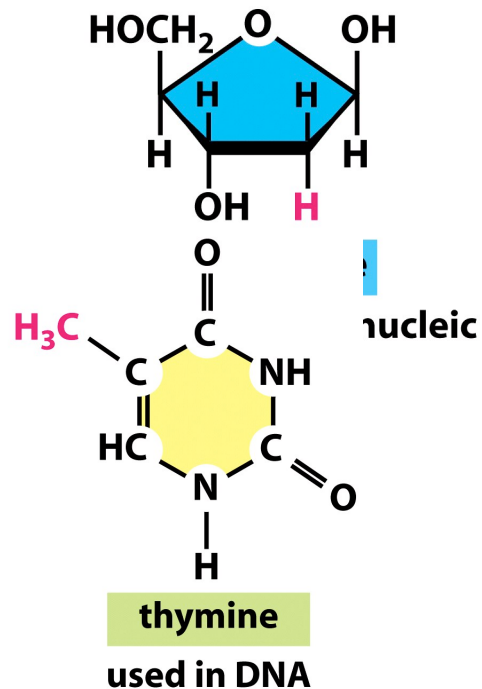
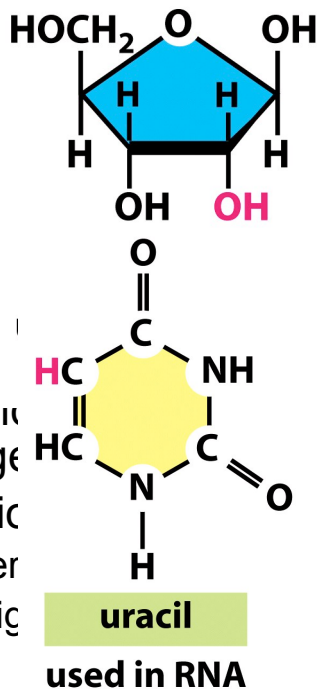


Transcripción

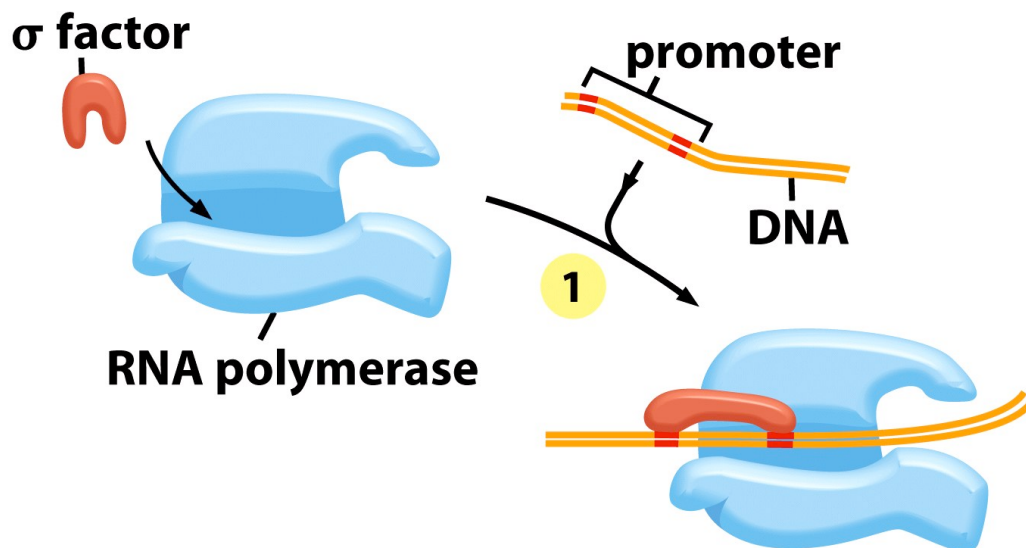
- Vamos desde ADN a ARN
- Catalizan: polimerasas de ARN.
 - Decidir donde unirse a ADN
 - Abrir la hélice de ADN
 - Copiar las bases de una hebra de ADN a una molecular de pre-ARNm
 - Cerrar el ADN



- Una
- Más
 - AR
 - AR
 - AD
- Ribos
- Uracil
- Nitroge
- Funci
 - inter
 - Dirig



TRANSCRIPTION START IN PROCARYOTES



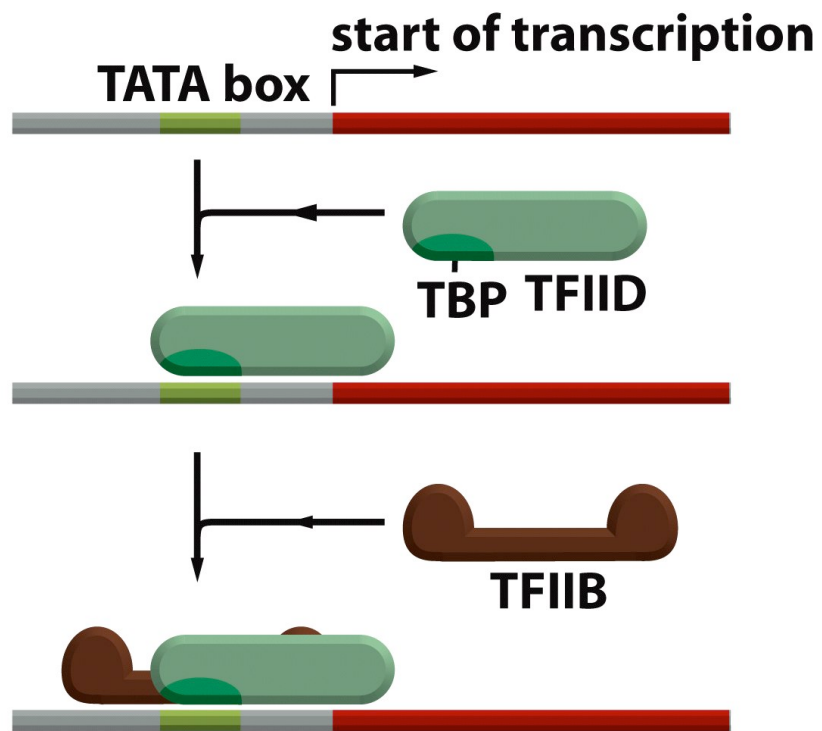
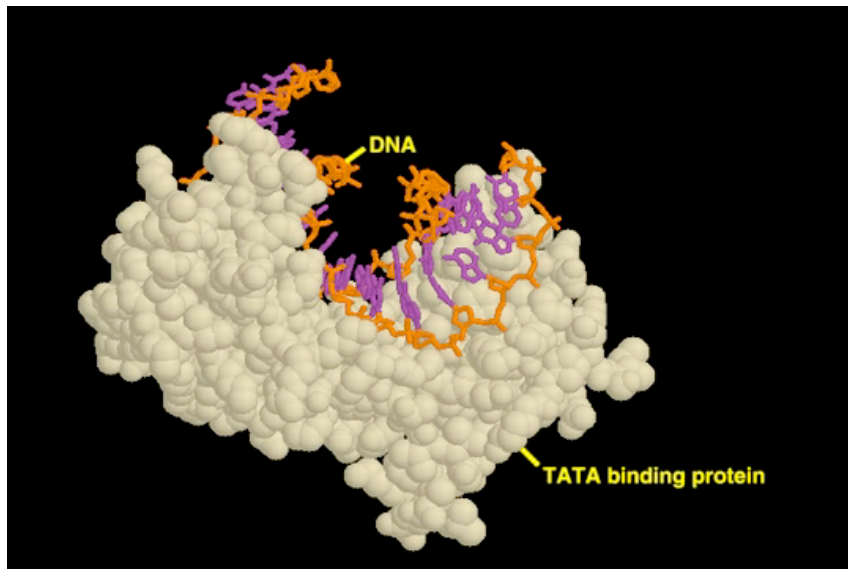


Figure 6-16 (part 1 of 3) *Molecular Biology of the Cell* (© Garland Science 2008)



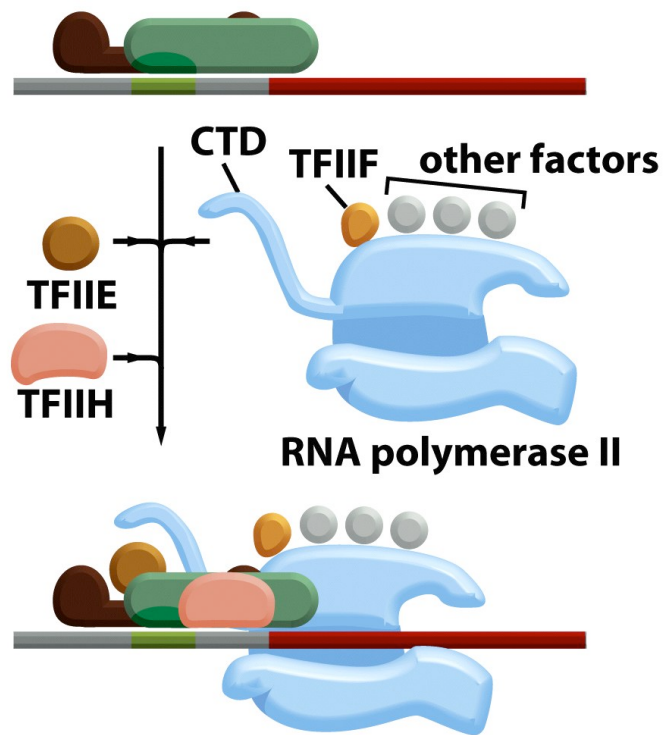


Figure 6-16 (part 2 of 3) *Molecular Biology of the Cell* (© Garland Science 2008)

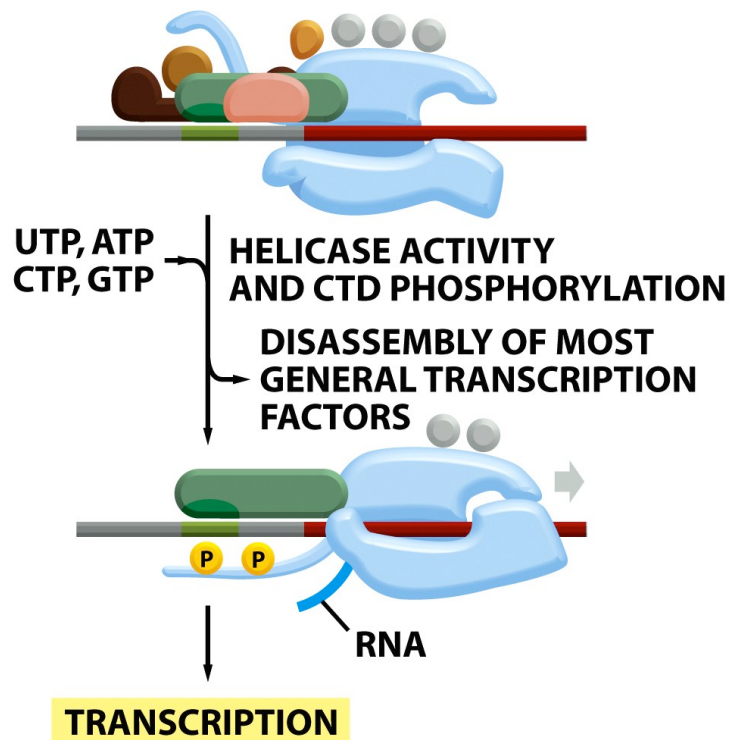


Figure 6-16 (part 3 of 3) *Molecular Biology of the Cell* (© Garland Science 2008)

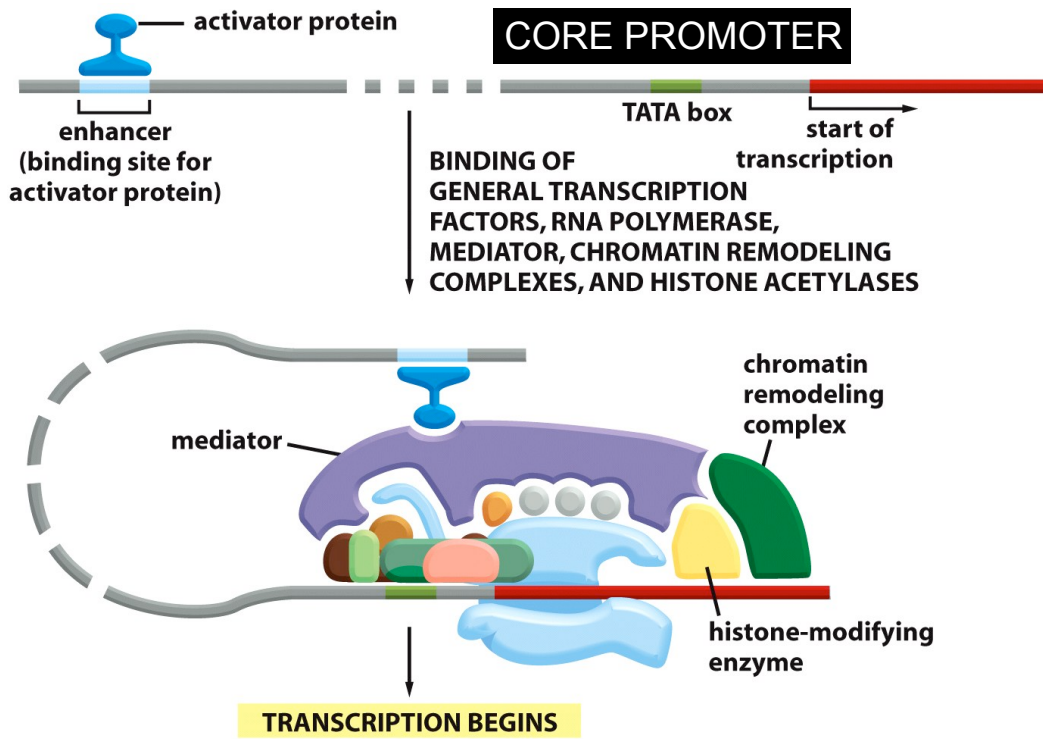
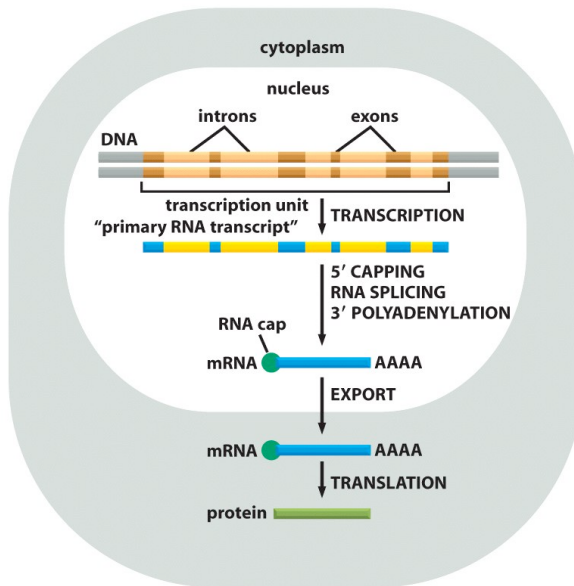


Figure 6-19 *Molecular Biology of the Cell* (© Garland Science 2008)

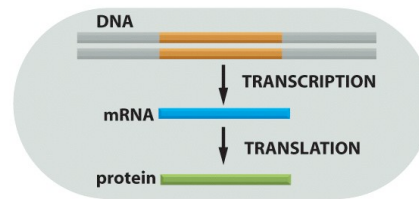
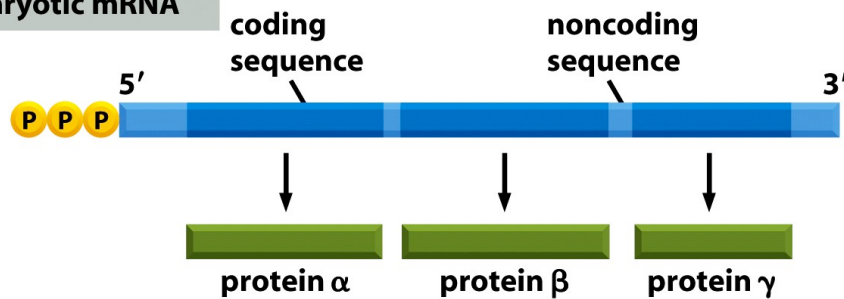
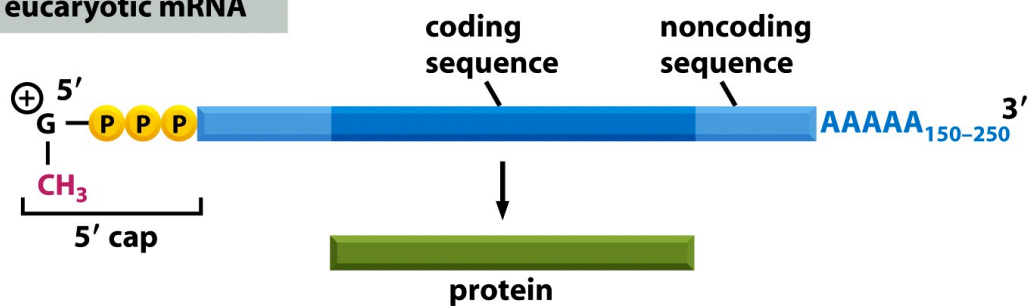


- Factores que se asocian al principio del gen (secuencia lineal de instrucciones en ADN).
- Notese la alta concentración de nucleótidos

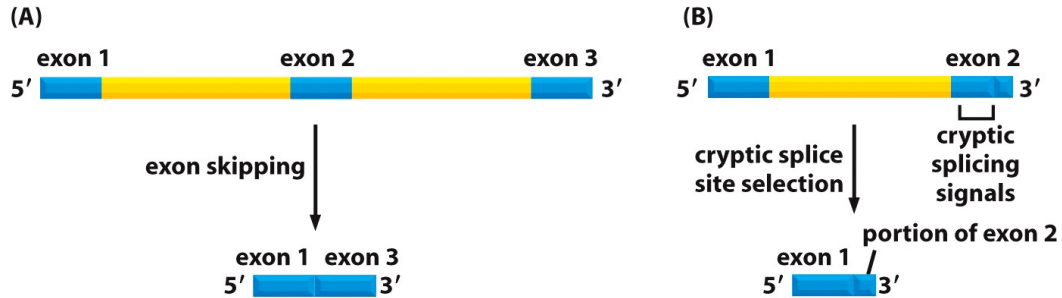
(A)

EUCARYOTES

(B)

PROCARYOTESFigure 6-21 *Molecular Biology of the Cell* (© Garland Science 2008)**procaryotic mRNA****eucaryotic mRNA**Figure 6-22a *Molecular Biology of the Cell* (© Garland Science 2008)

ALTERNATIVE SPLICING

Figure 6-31 *Molecular Biology of the Cell* (© Garland Science 2008)

PROCARYOTES

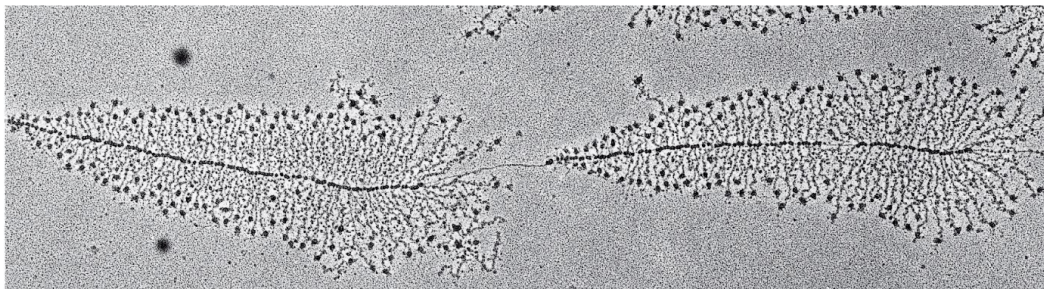
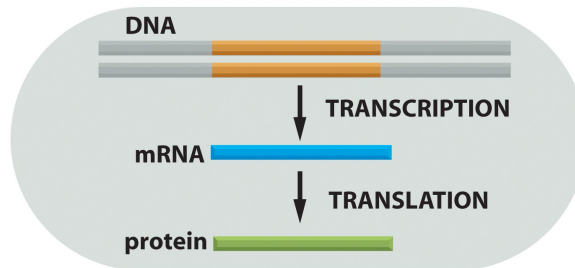
1 μm Figure 6-9 *Molecular Biology of the Cell* (© Garland Science 2008)

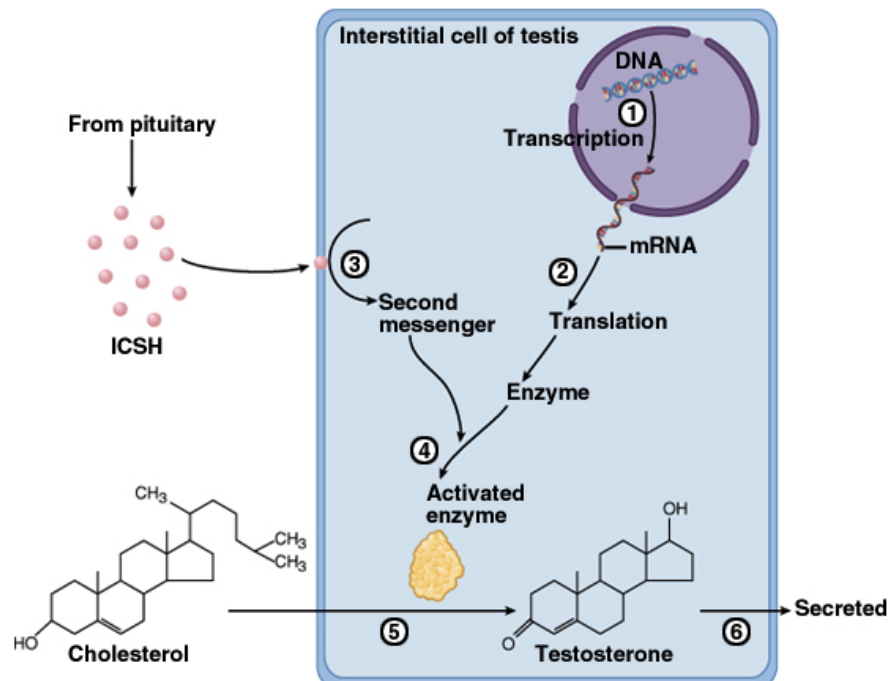
Table 6–2 The Three RNA Polymerases in Eucaryotic Cells

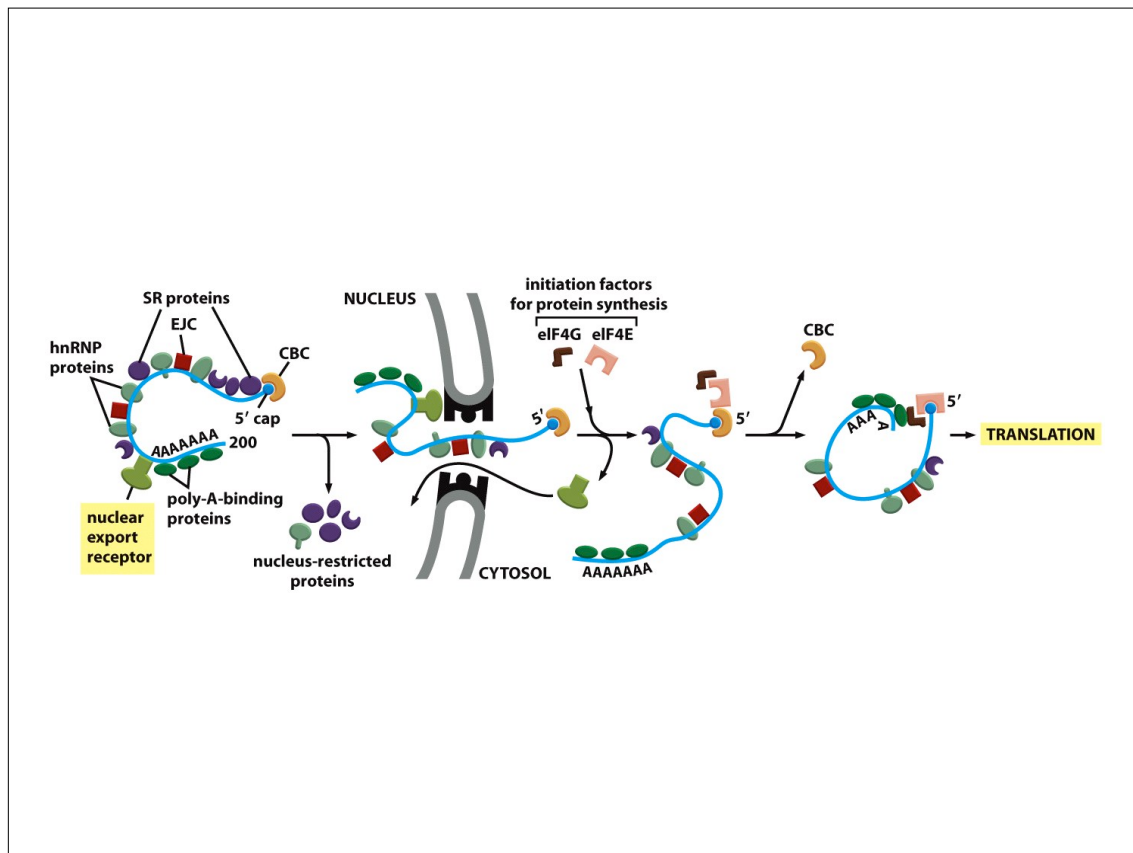
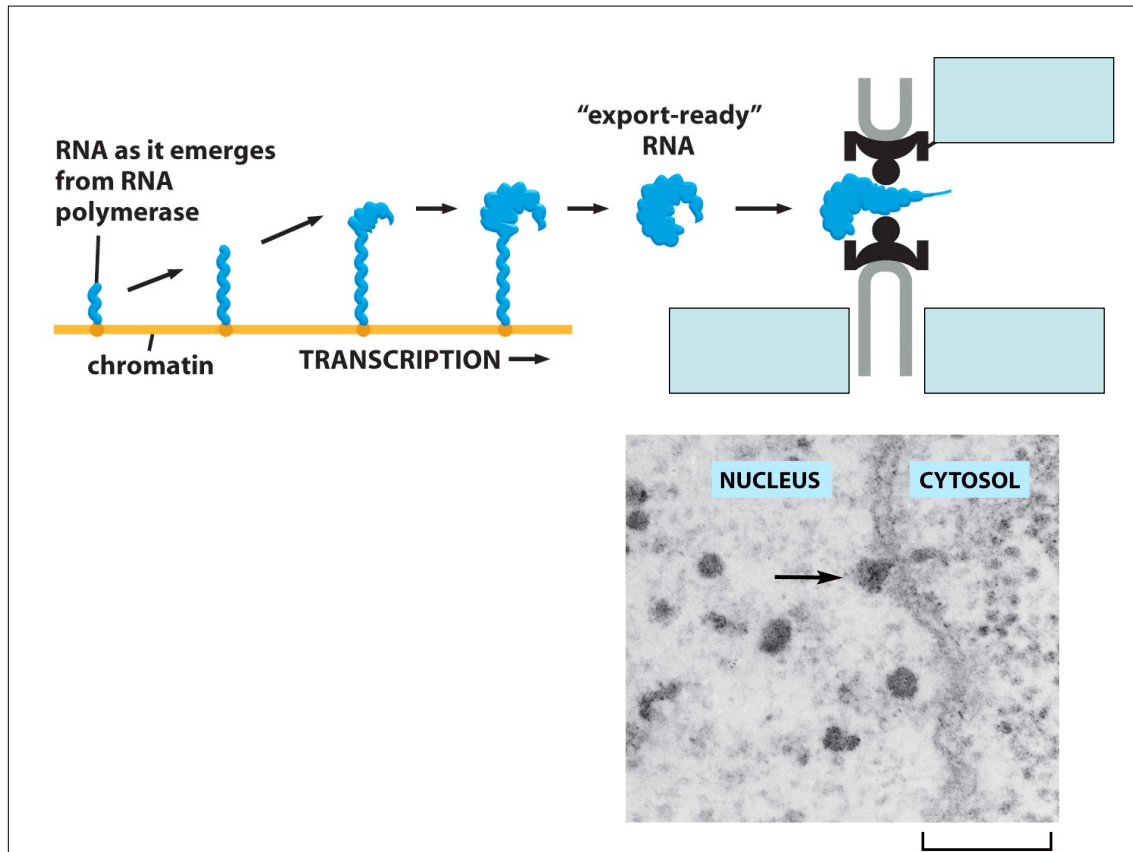
TYPE OF POLYMERASE	GENES TRANSCRIBED
RNA polymerase I	5.8S, 18S, and 28S rRNA genes
RNA polymerase II	all protein-coding genes, plus snoRNA genes, miRNA genes, siRNA genes, and most snRNA genes
RNA polymerase III	tRNA genes, 5S rRNA genes, some snRNA genes and genes for other small RNAs

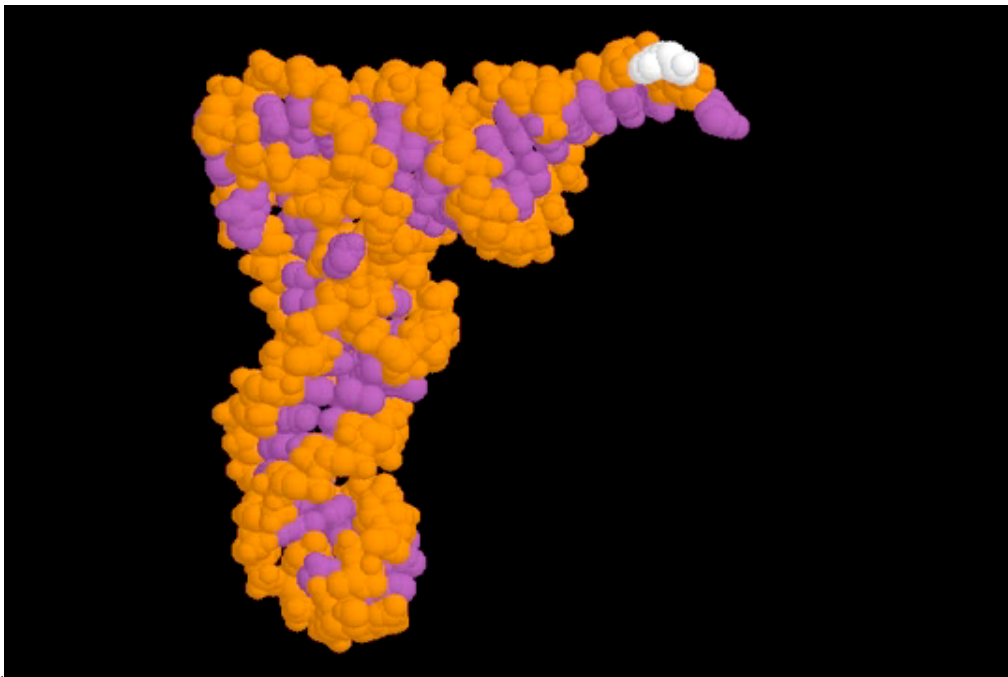
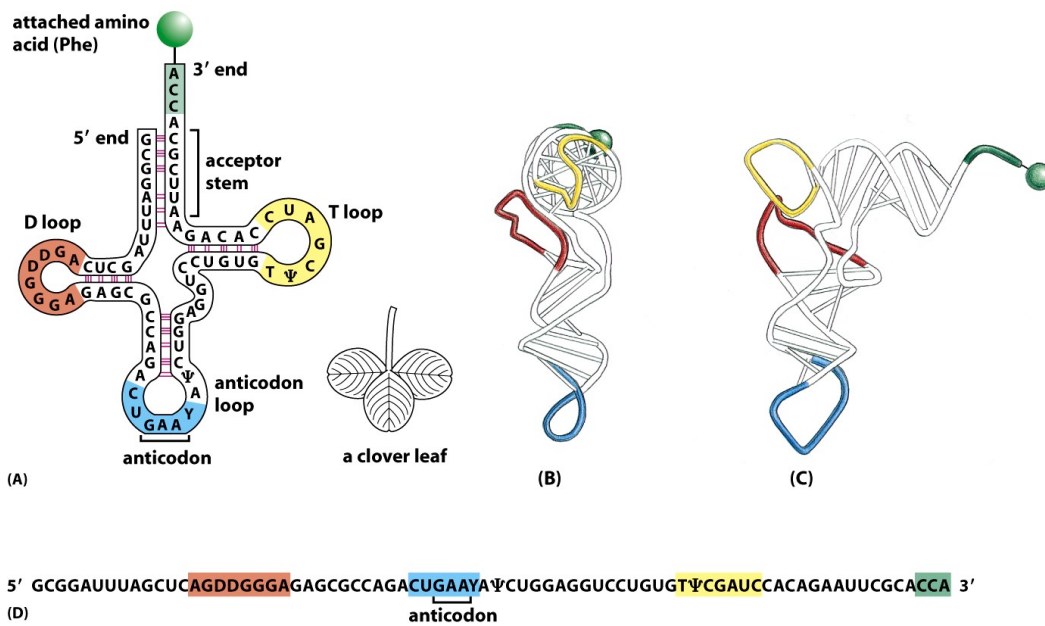
The rRNAs are named according to their “S” values, which refer to their rate of sedimentation in an ultracentrifuge. The larger the S value, the larger the rRNA.

Table 6-2 *Molecular Biology of the Cell* (© Garland Science 2008)

Indirect Control of Nonprotein Synthesis by DNA







Notes:

1. sitio de asociación a aa.
2. Posición del anticodon y su exposición

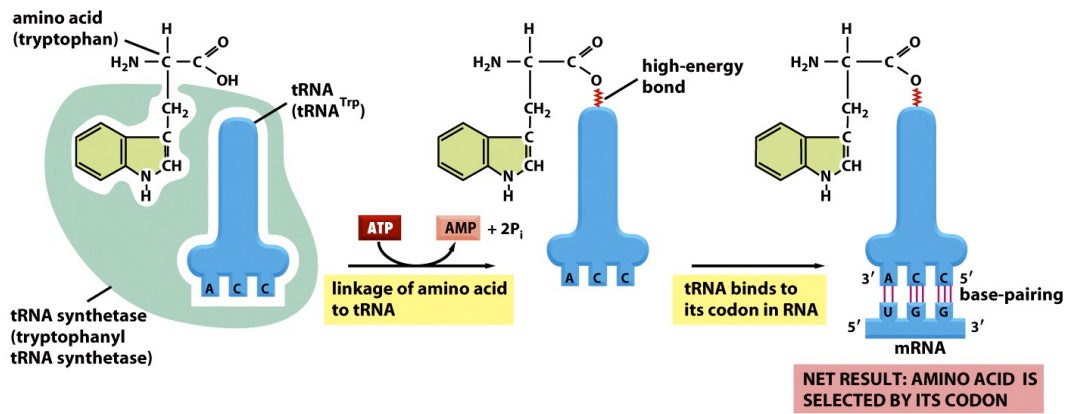


Figure 6-58 *Molecular Biology of the Cell* (© Garland Science 2008)

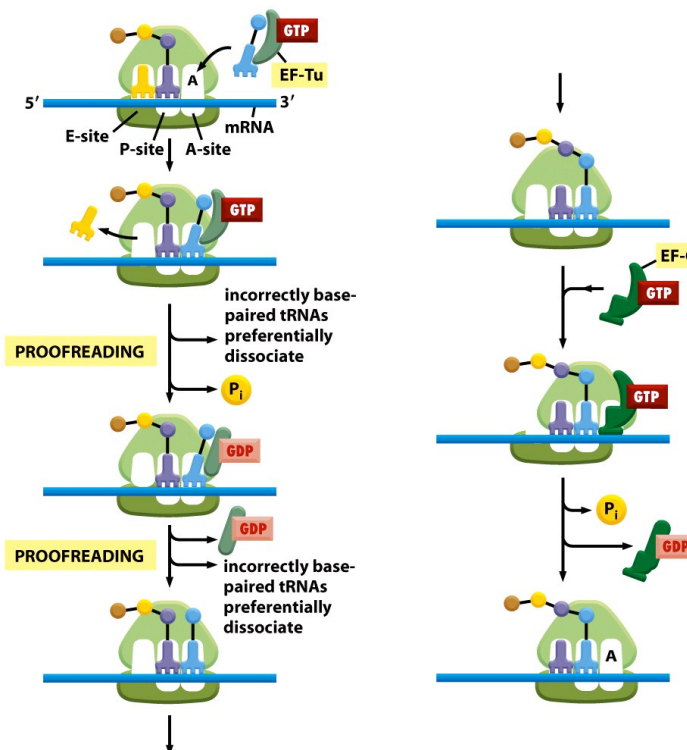
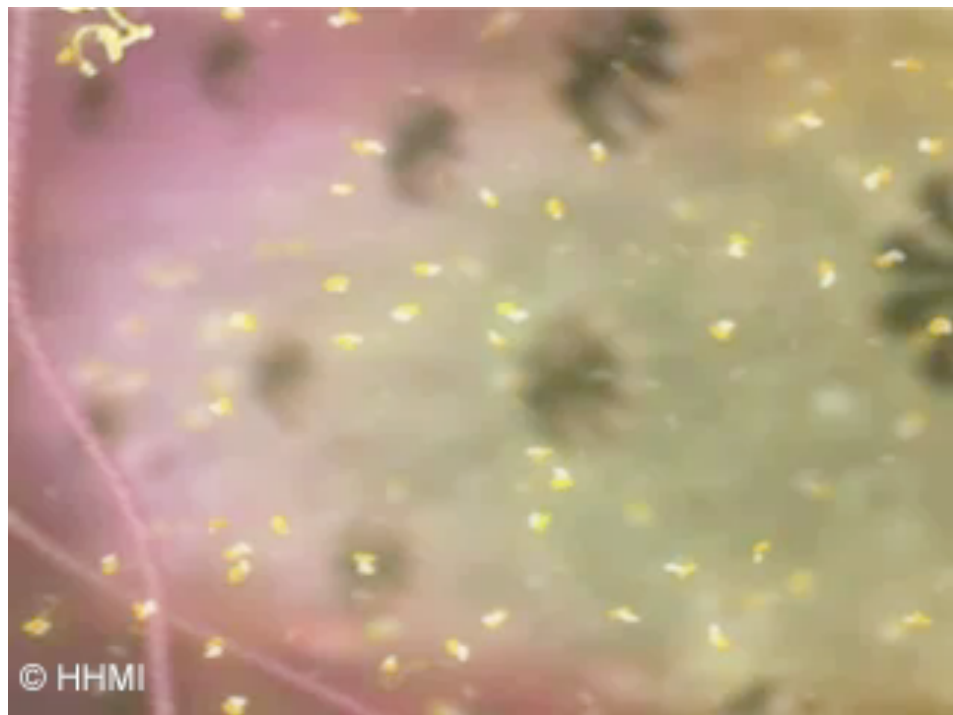
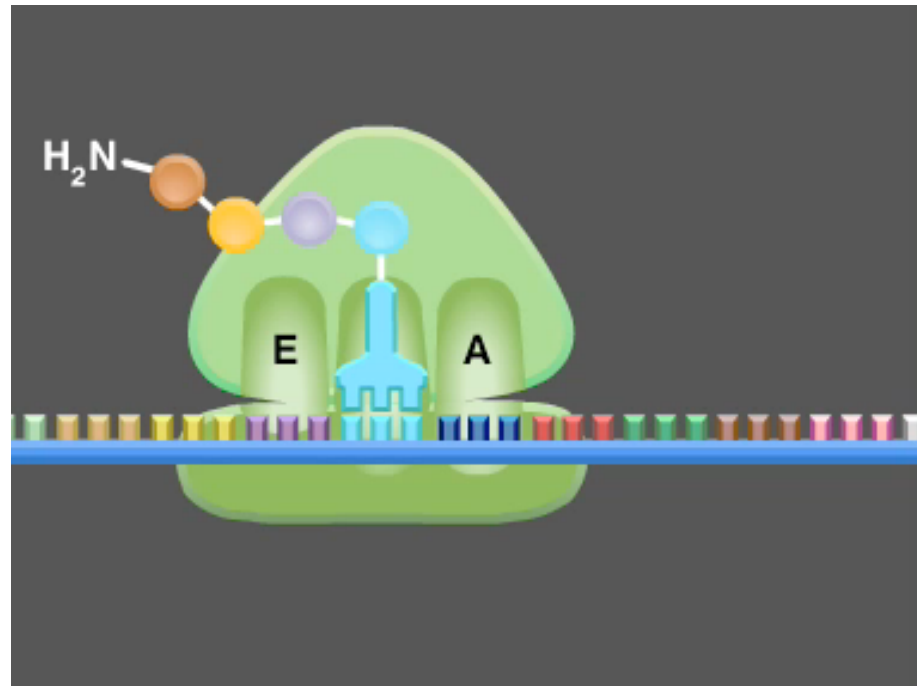


Figure 6-67 *Molecular Biology of the Cell* (© Garland Science 2008)



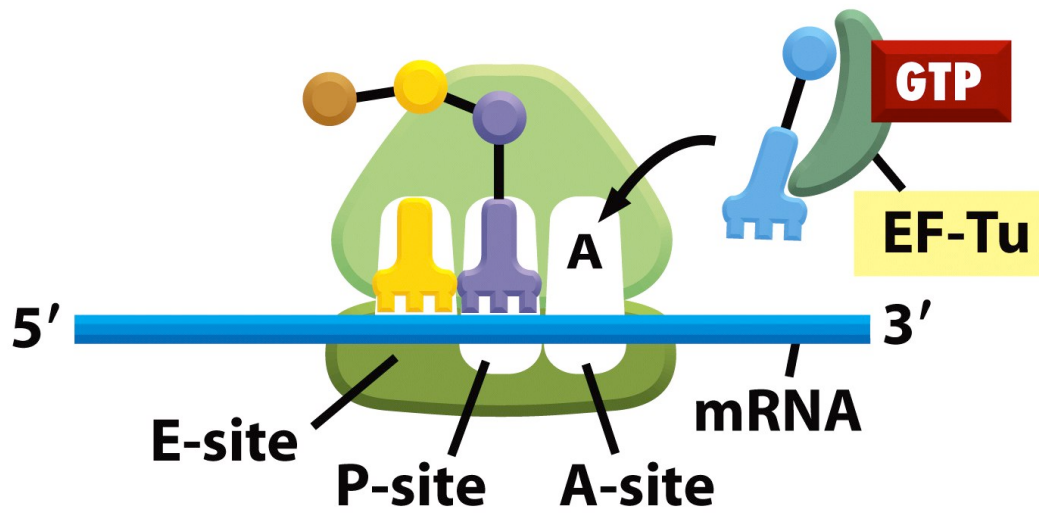


Figure 6-67 (part 1 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

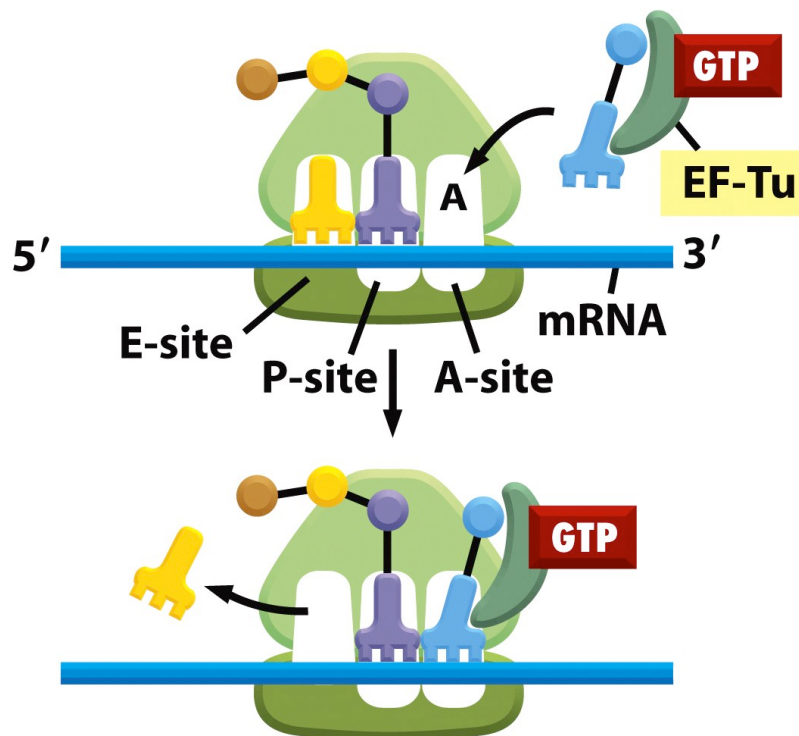


Figure 6-67 (part 2 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

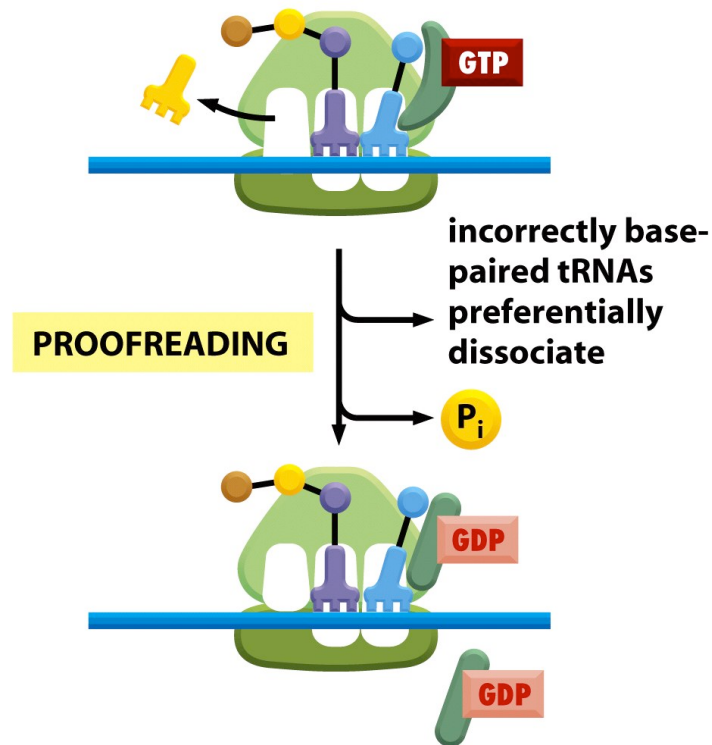


Figure 6-67 (part 3 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

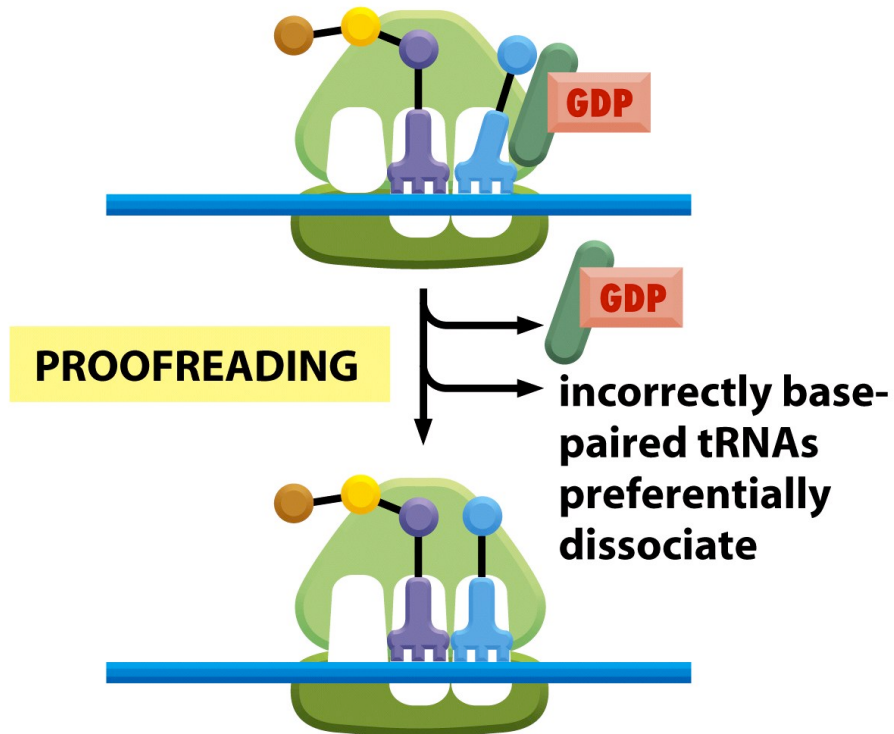


Figure 6-67 (part 4 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

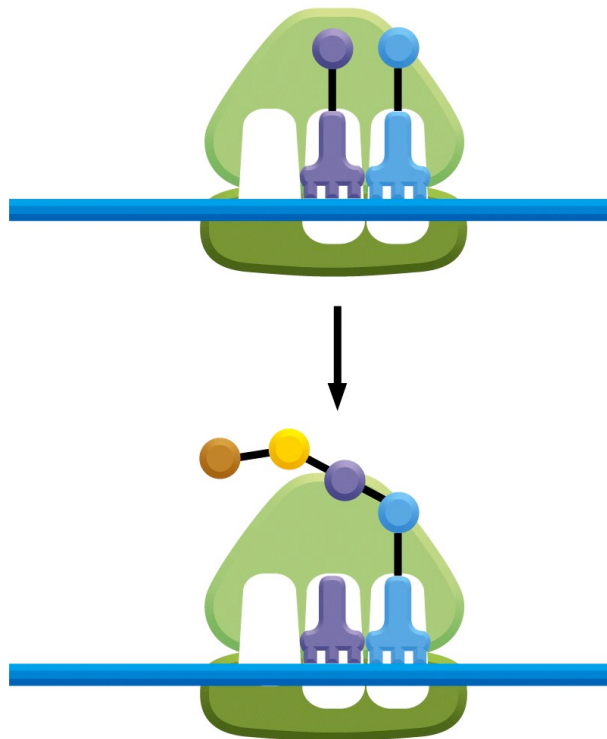


Figure 6-67 (part 5 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

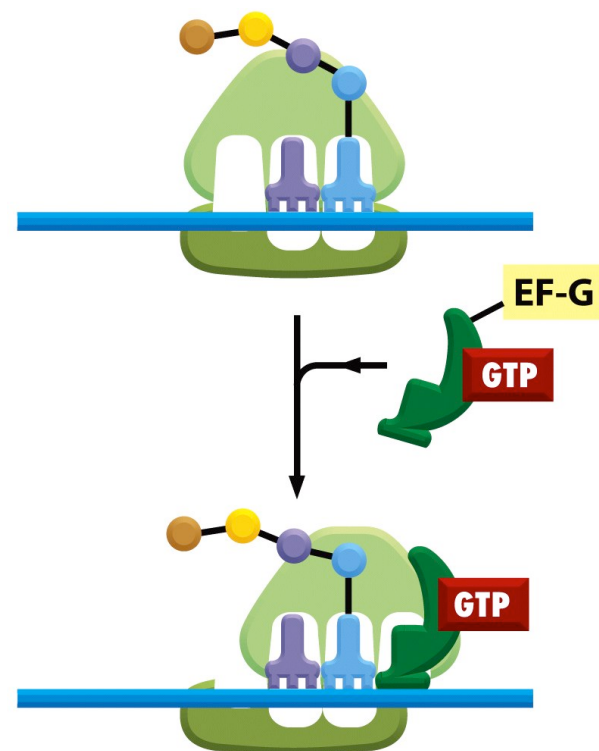


Figure 6-67 (part 6 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

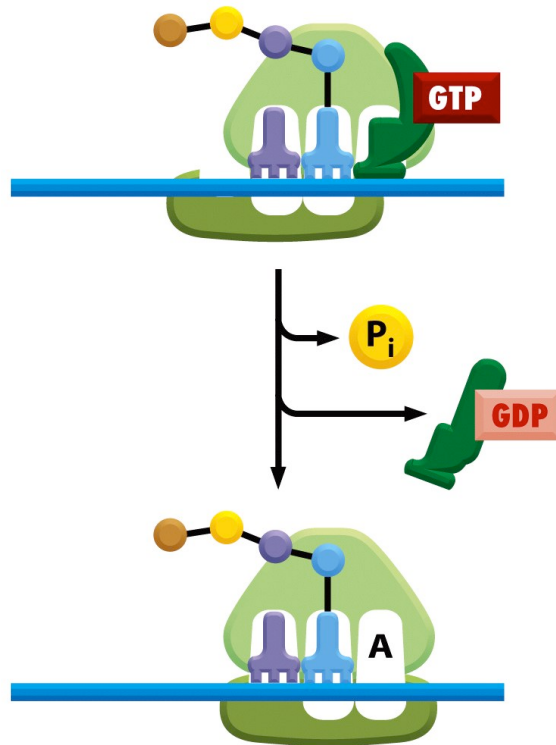


Figure 6-67 (part 7 of 7) *Molecular Biology of the Cell* (© Garland Science 2008)

Reconocimiento Inicial

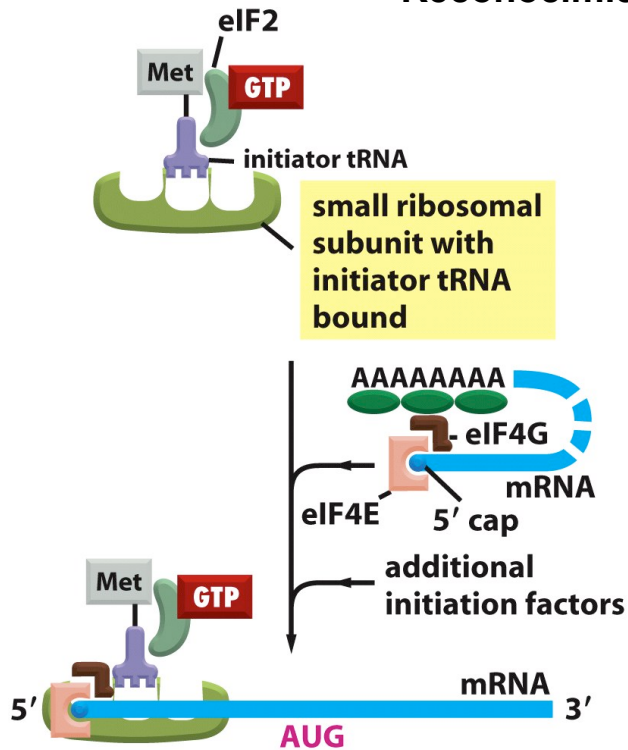


Figure 6-72 (part 1 of 5) *Molecular Biology of the Cell* (© Garland Science 2008)

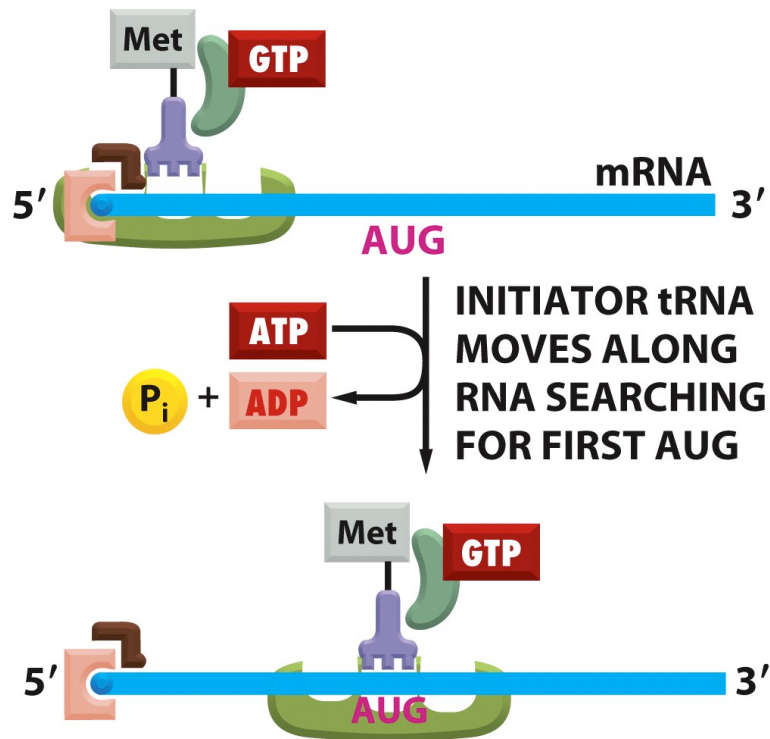


Figure 6-72 (part 2 of 5) *Molecular Biology of the Cell* (© Garland Science 2008)

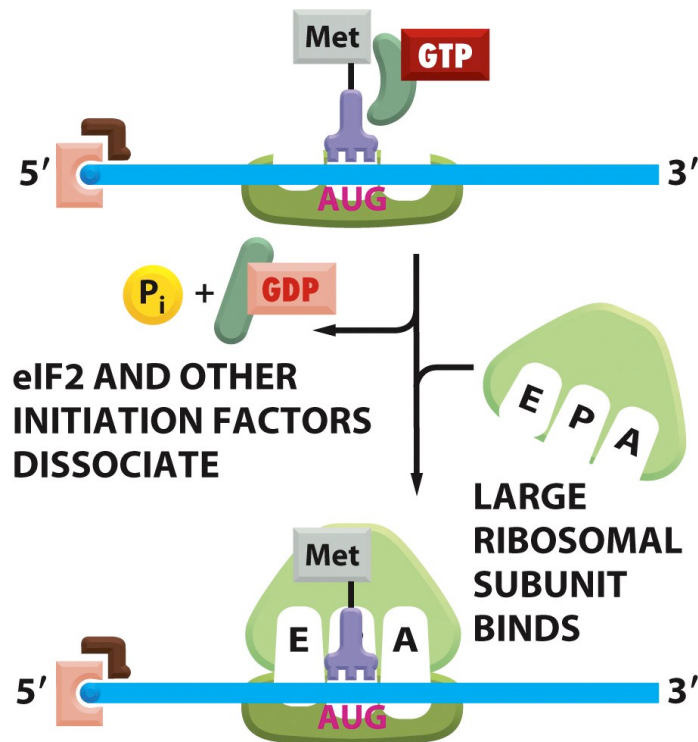


Figure 6-72 (part 3 of 5) *Molecular Biology of the Cell* (© Garland Science 2008)

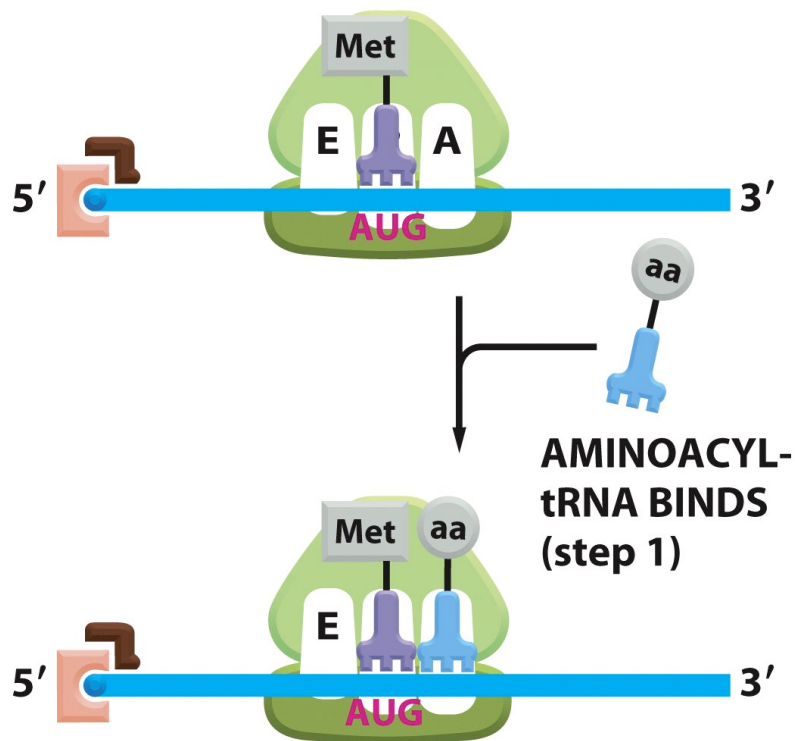


Figure 6-72 (part 4 of 5) *Molecular Biology of the Cell* (© Garland Science 2008)

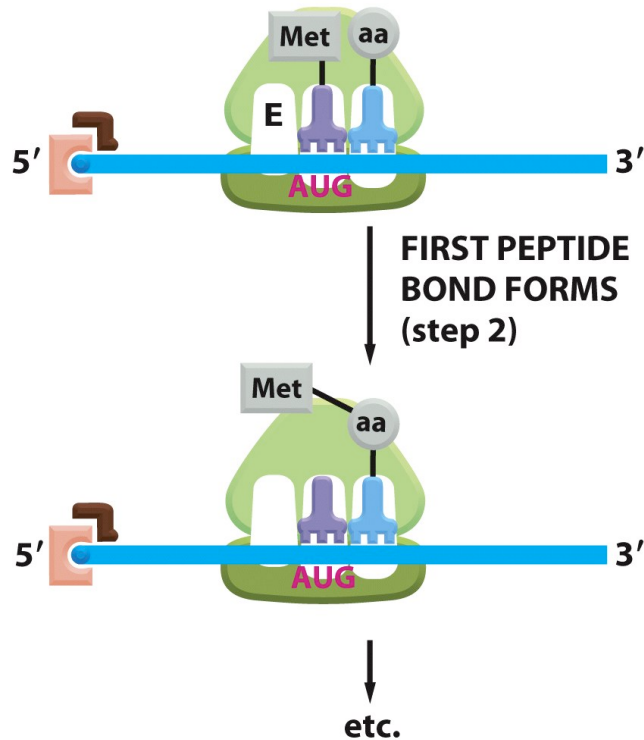
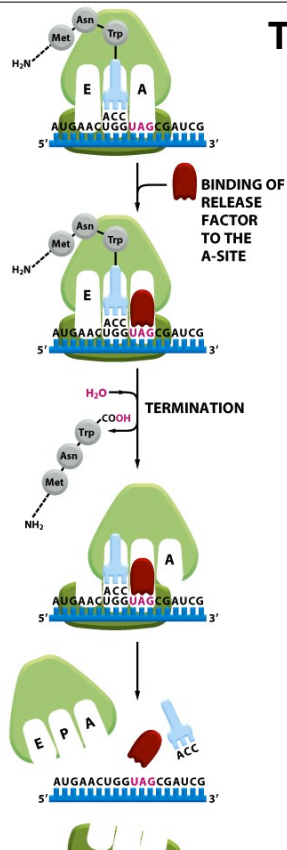


Figure 6-72 (part 5 of 5) *Molecular Biology of the Cell* (© Garland Science 2008)

Terminación



nascent polypeptide chain

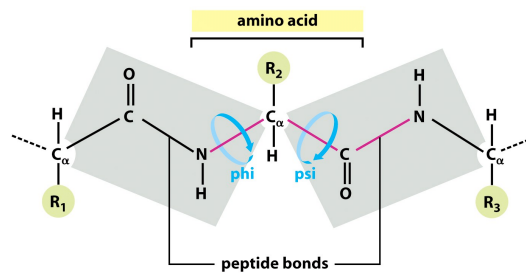
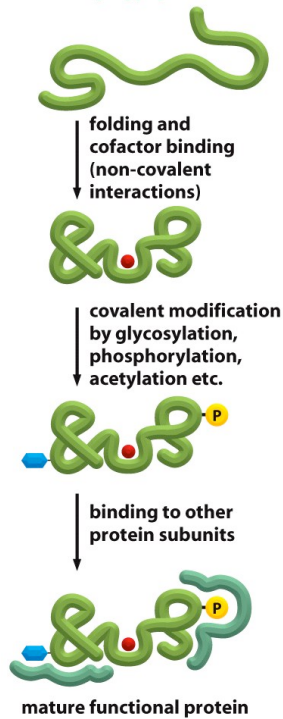


Figure 3-3a Molecular Biology of the Cell 5/e (© Garland Science 2008)

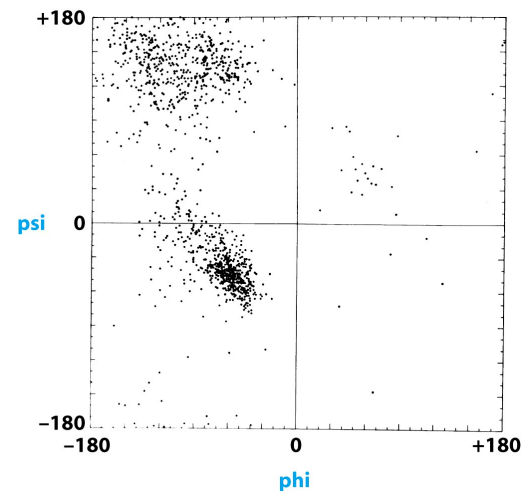


Figure 3-3b Molecular Biology of the Cell 5/e (© Garland Science 2008)

Figure 6-82 Molecular Biology of the Cell (© Garland Science 2008)

