Translation (Initiation of protein synthesis in prokaryotes)

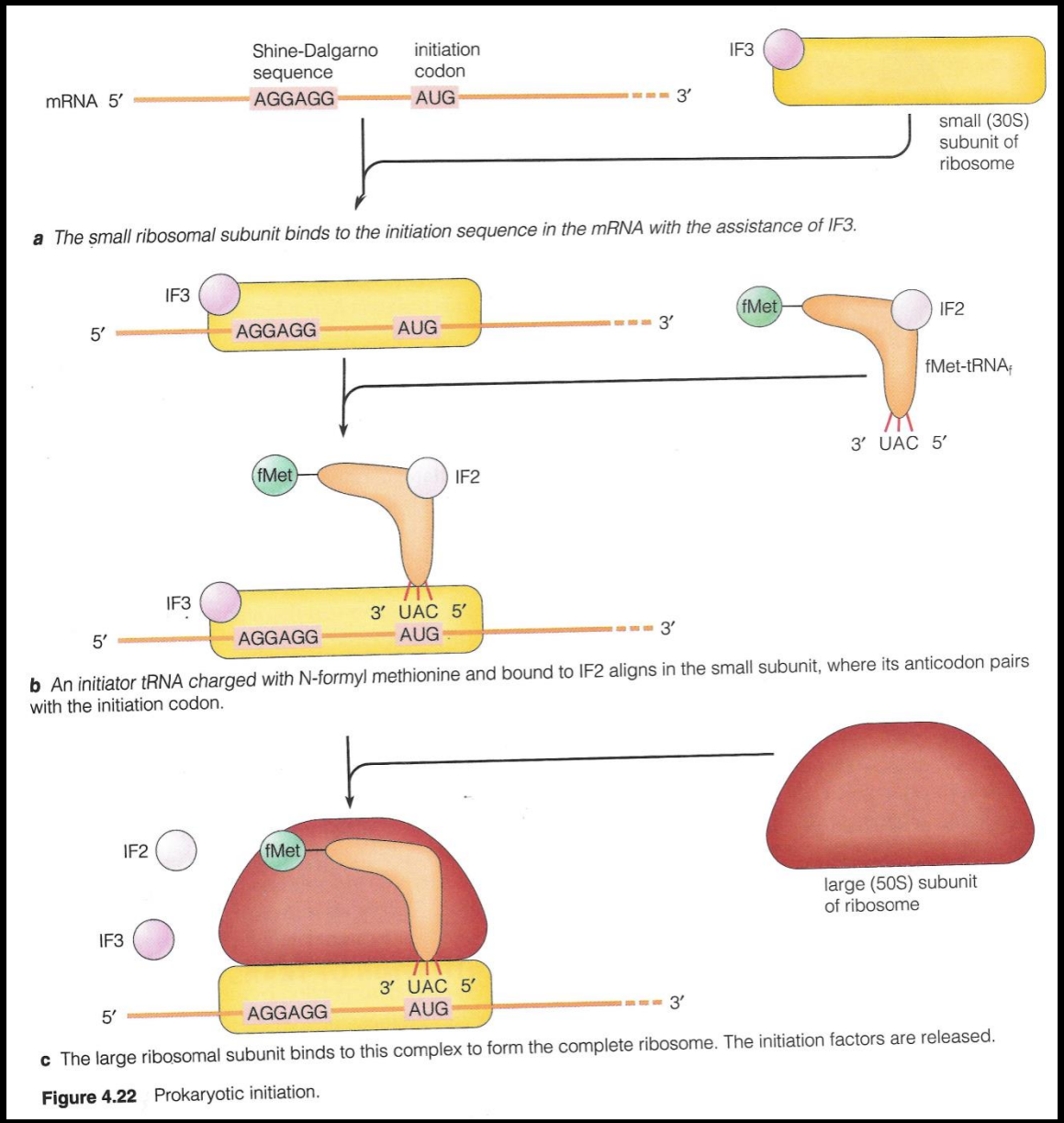


Figure 4.22 Prokaryotic initiation.

Translation (Initiation of protein synthesis)

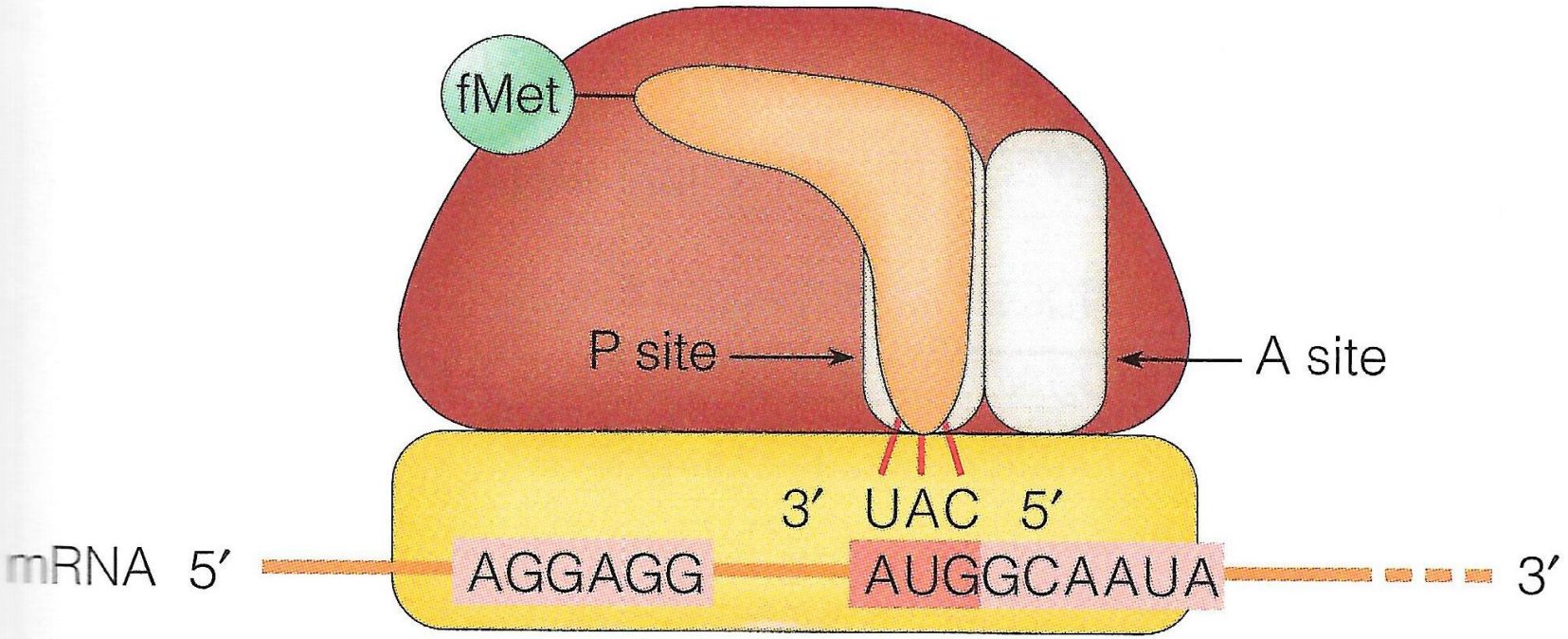


Figure 4.23 P and A sites in the ribosome. There are two sites in the ribosome that can be occupied by tRNAs, the P site and the A site.

Translation (Elongation of protein synthesis in prokaryotes)

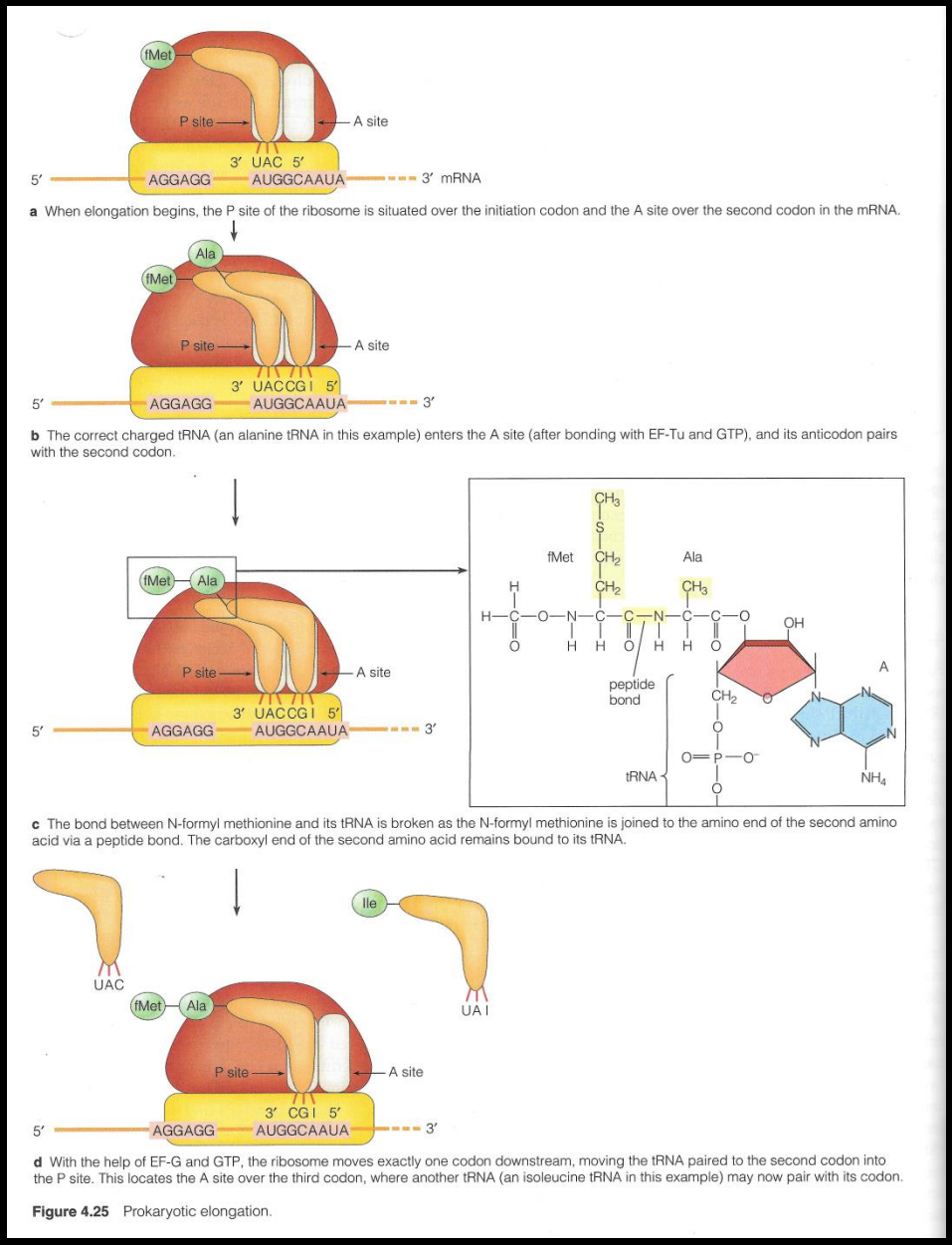
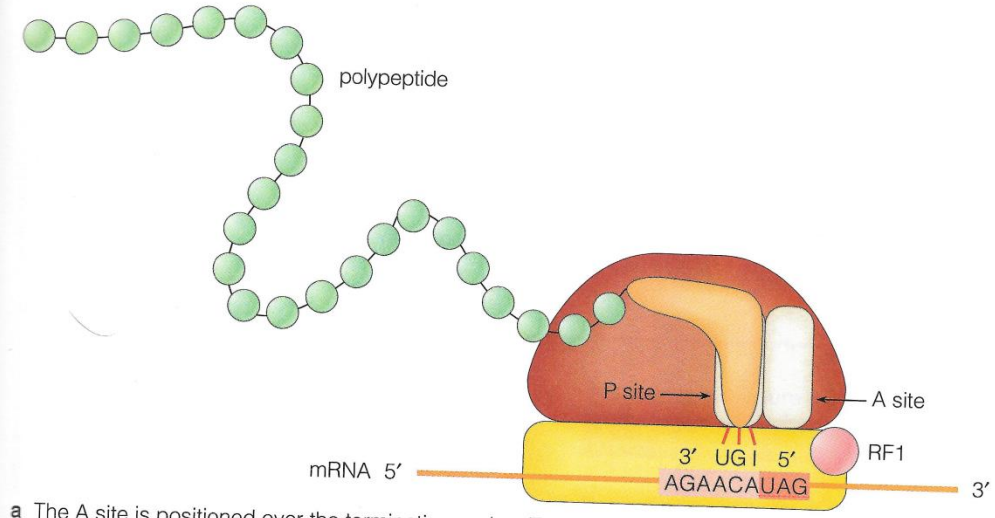
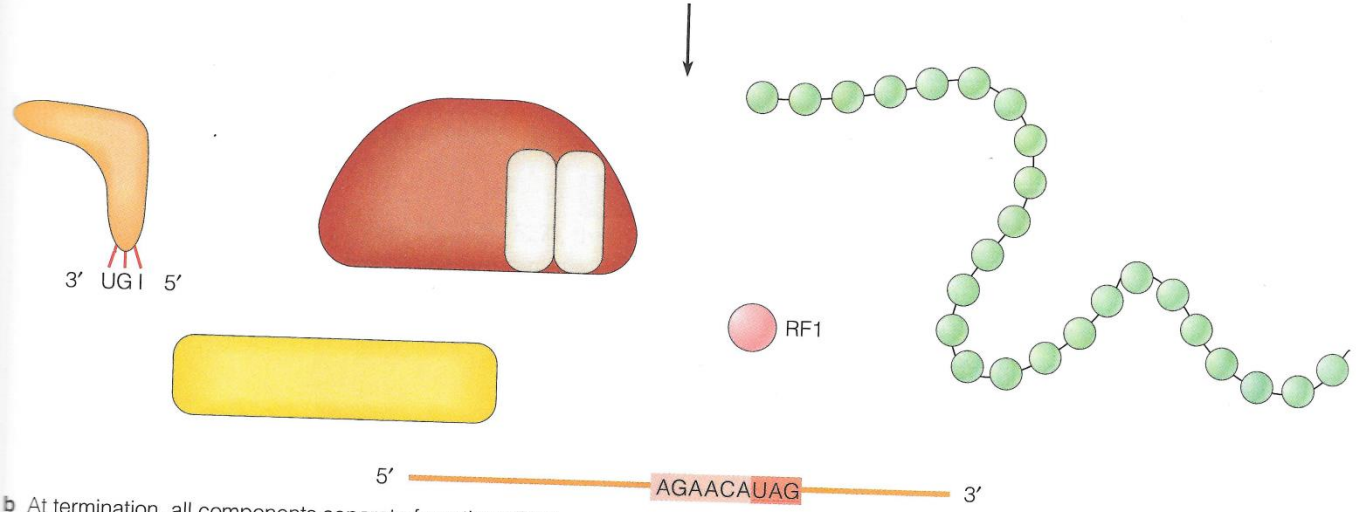


Figure 4.25 Prokaryotic elongation.

Translation (Termination of protein synthesis)



a The A site is positioned over the termination codon. Termination factor RF1 facilitates termination in this example because the termination codon is UAG.



b At termination, all components separate from the mRNA.

Figure 4.26 Prokaryotic termination.