

In the name of the most high

Introduction to Bioinformatics

Translation

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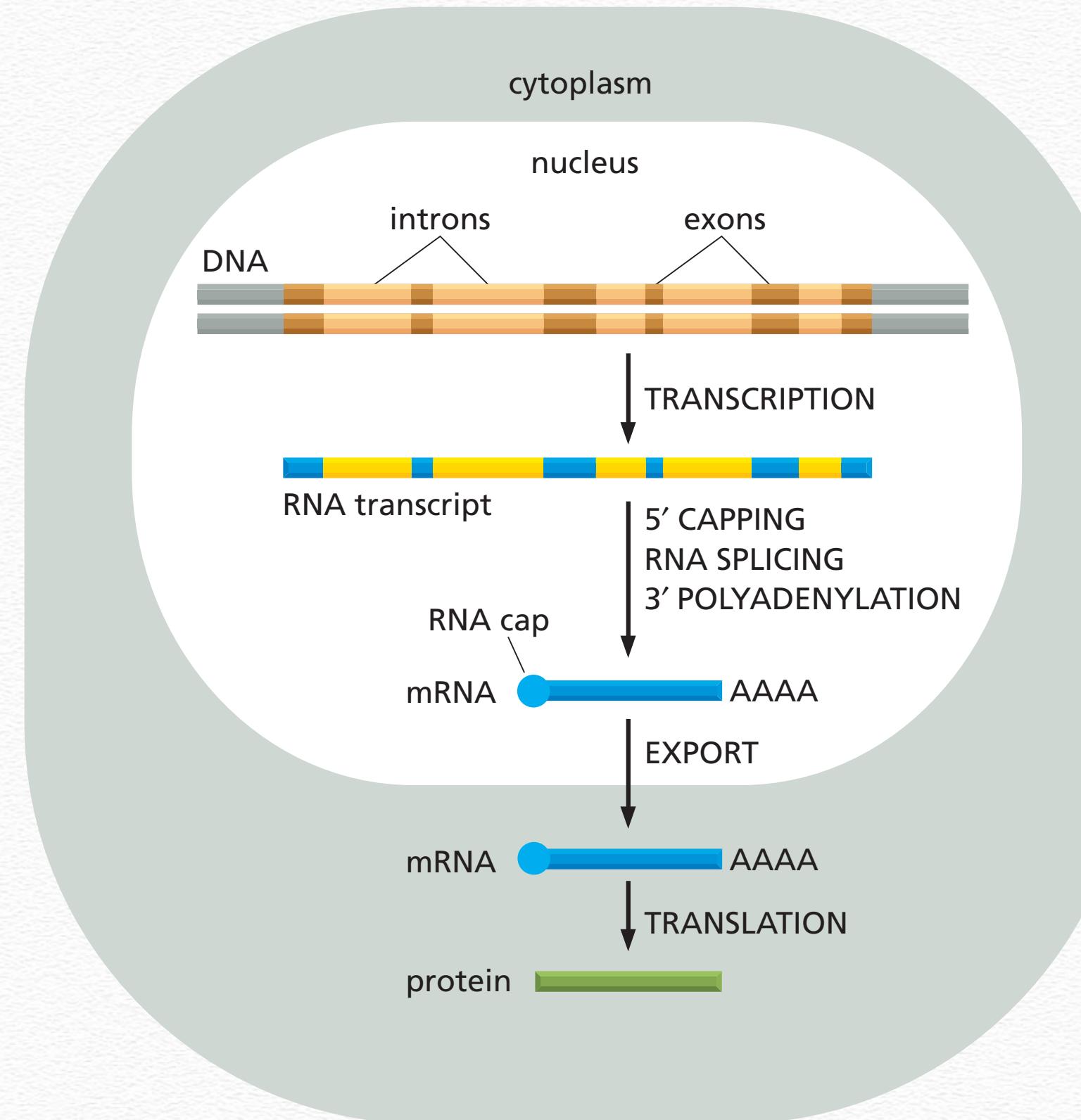
The contents including images and videos are from Bruce Alberts et al. Essential Cell Biology,
unless indicated separately.

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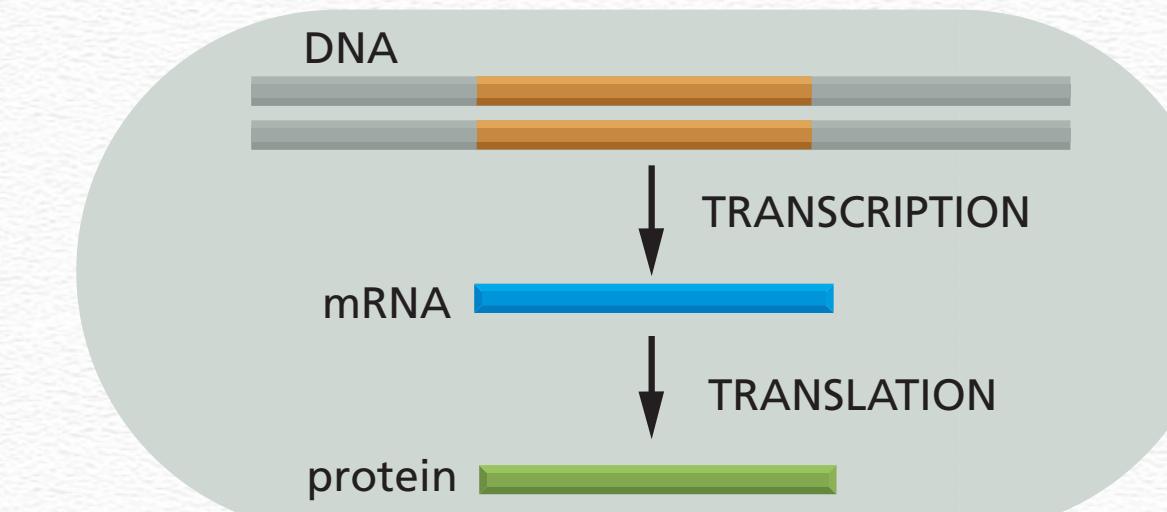
Translation: Making Proteins from RNA

Eukaryotic & Prokaryotic

(A) EUKARYOTES

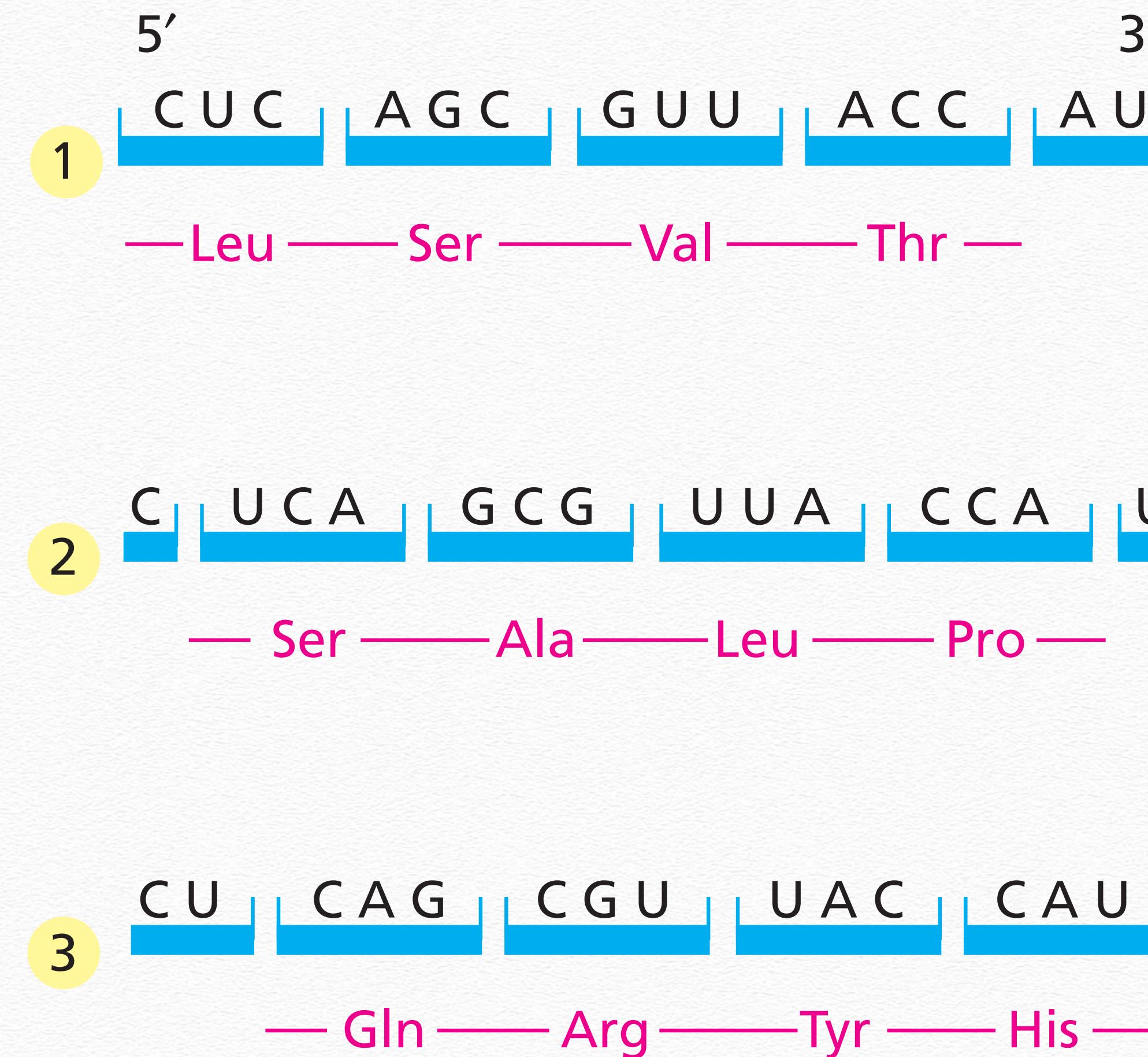


(B) PROCARYOTES

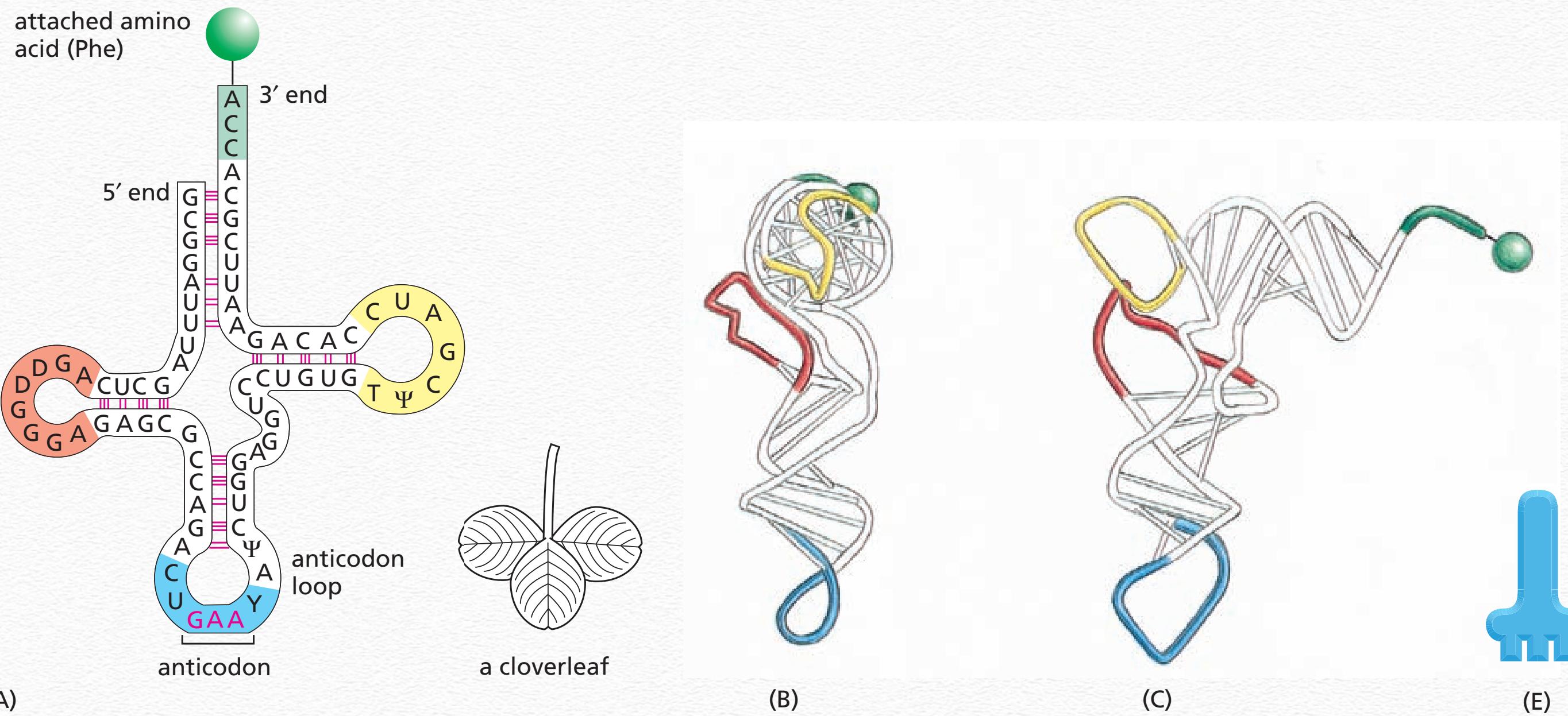


64 -> 20 Code Table

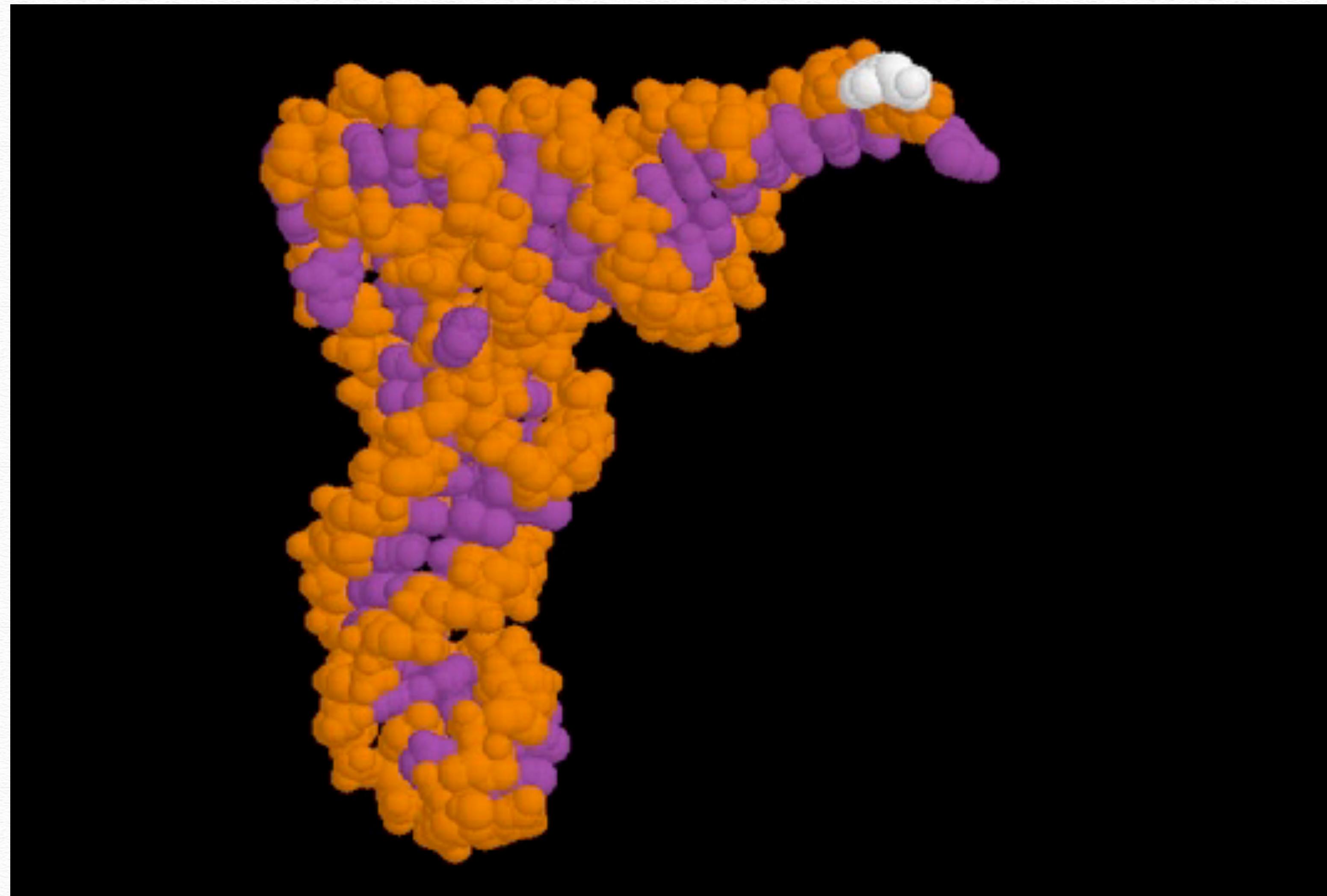
3 Possible Reading Frames



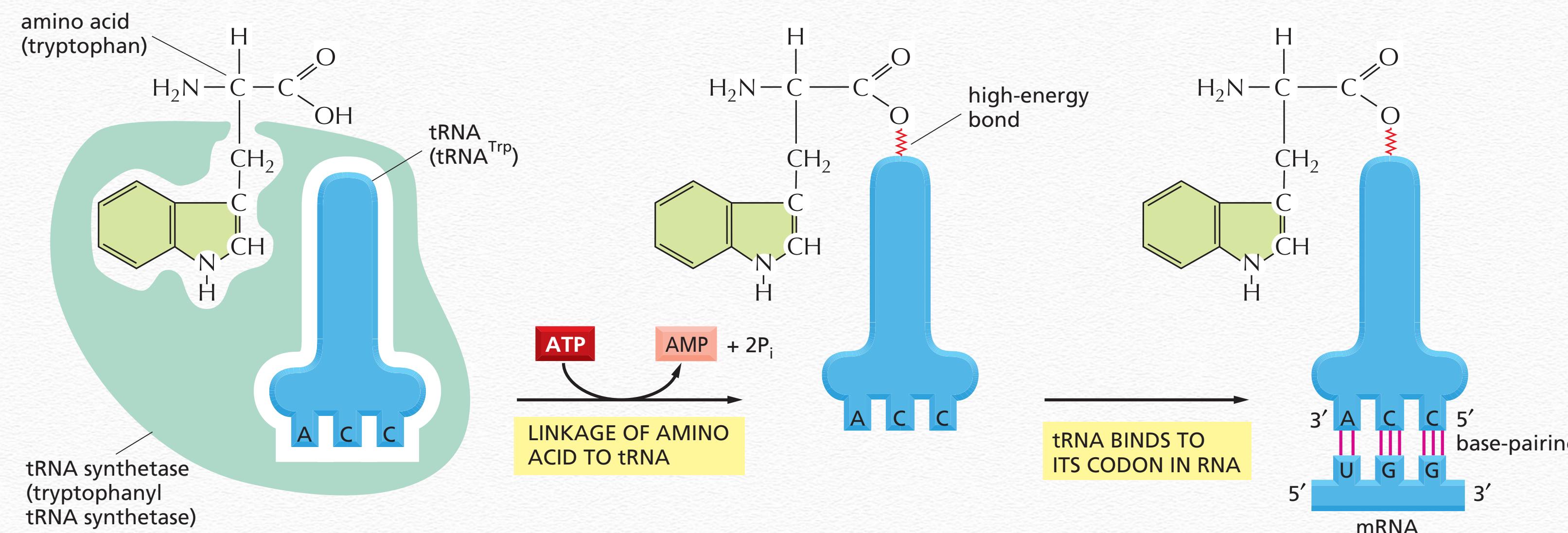
transport-RNA (tRNA)



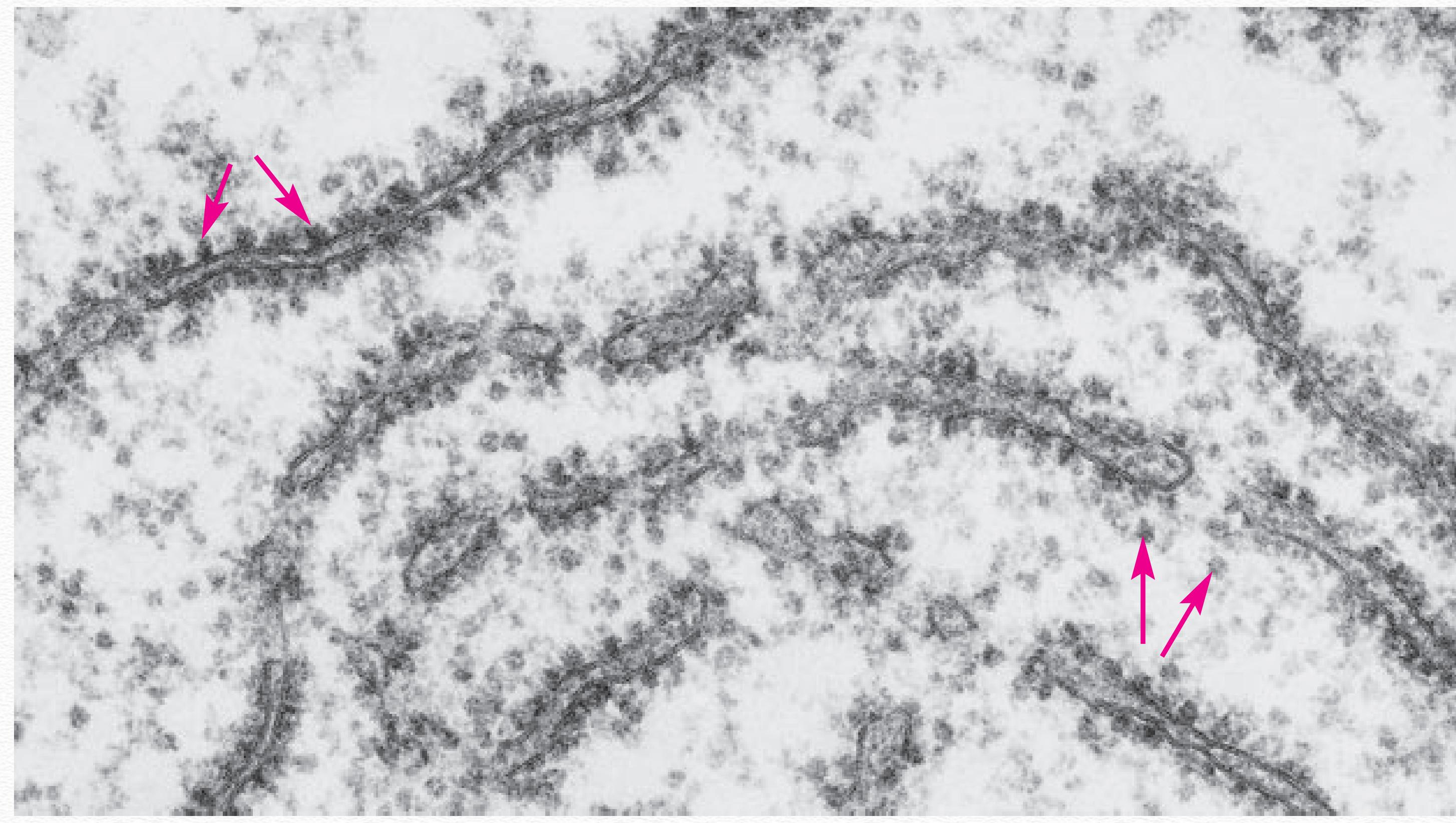
tRNA



Specific Enzymes for tRNA Synthesis



Ribosomes

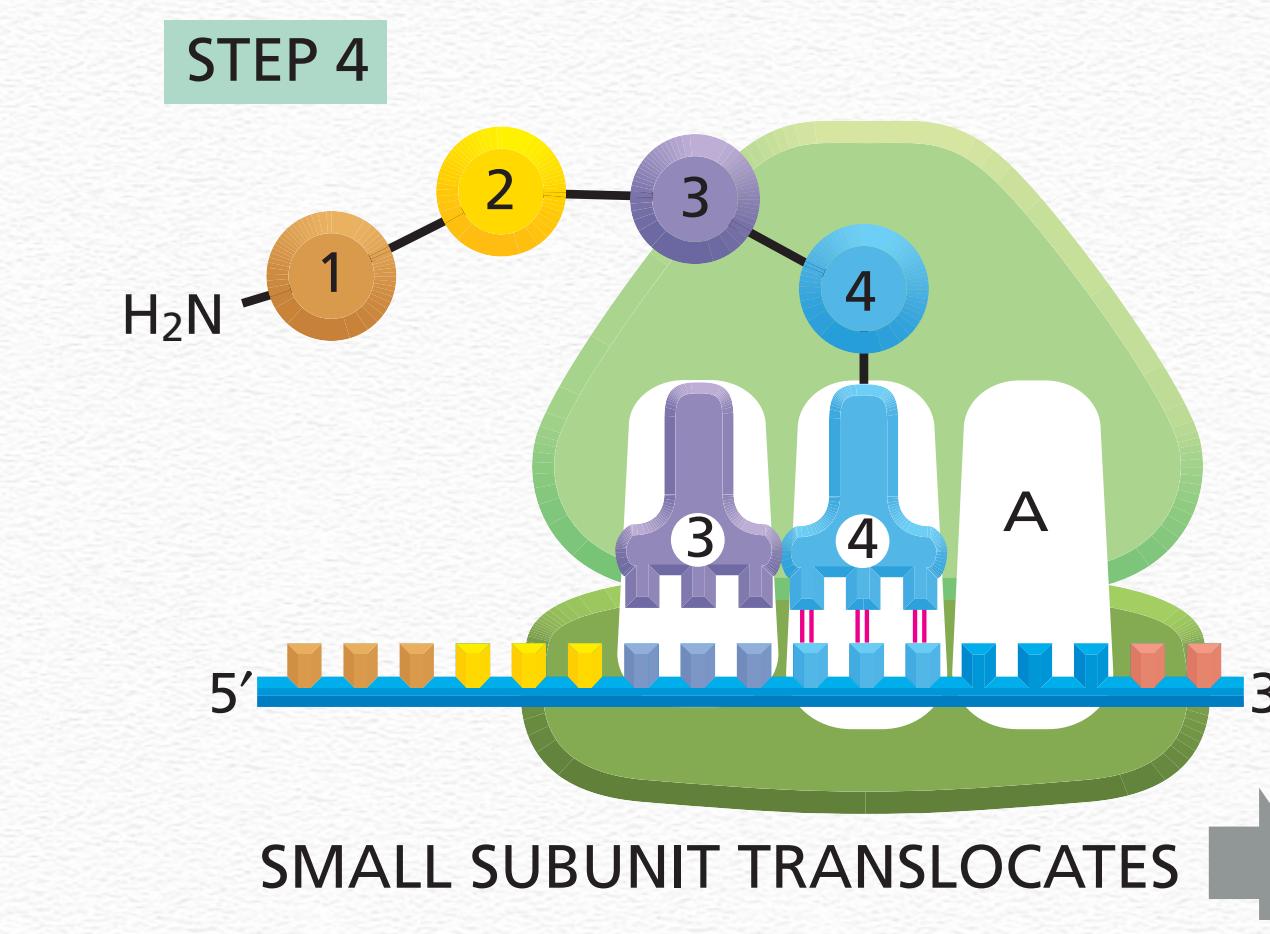
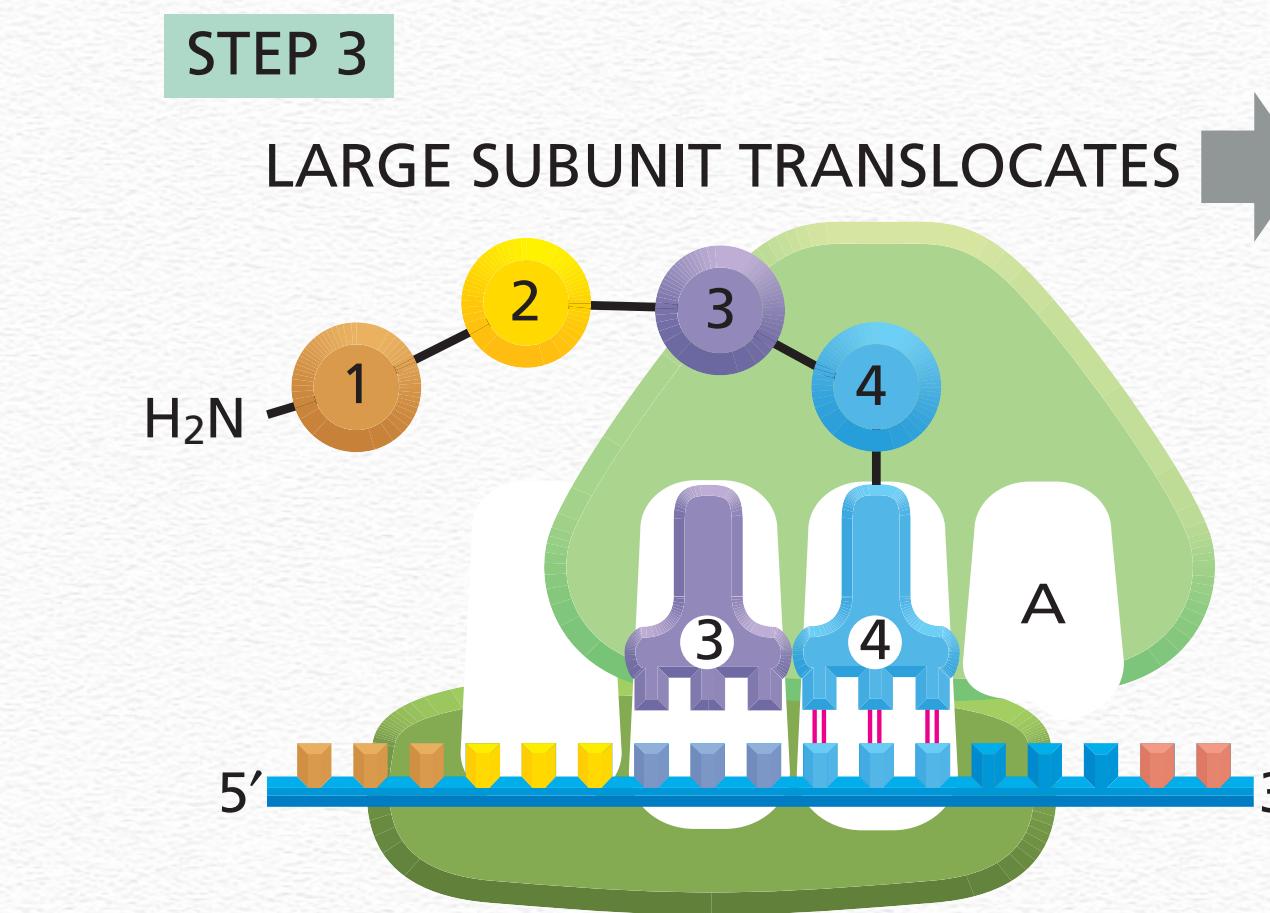
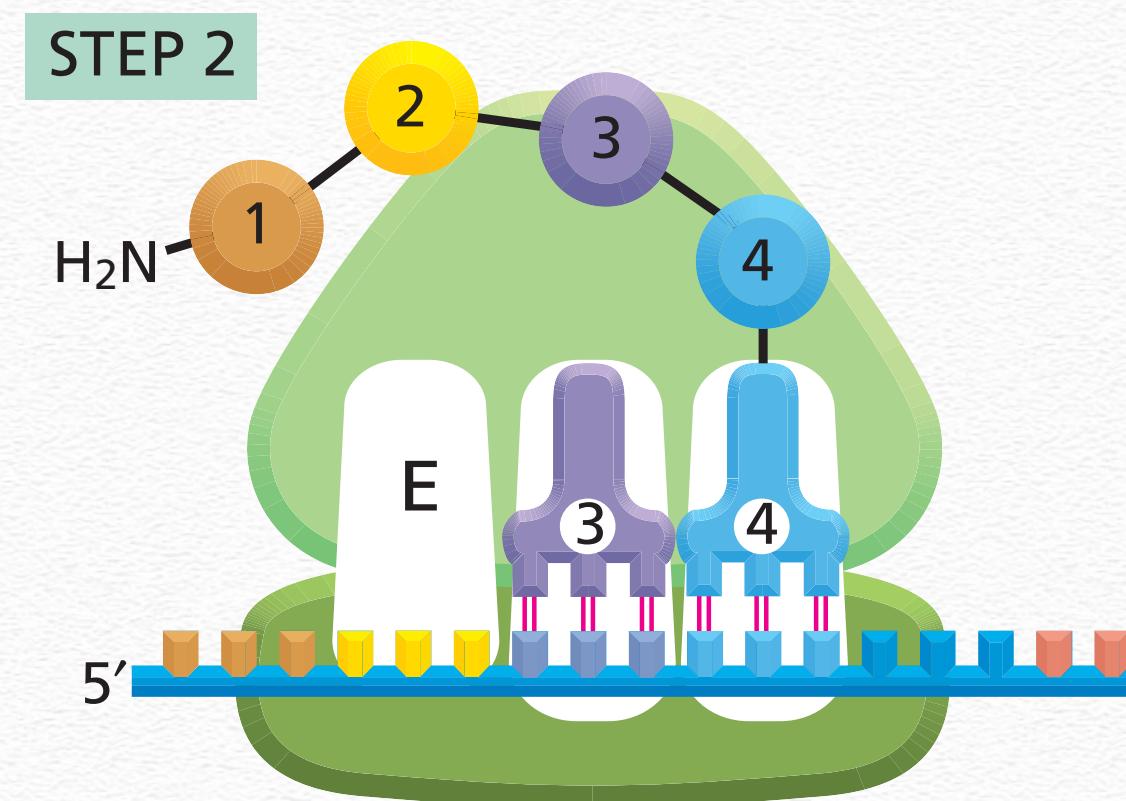
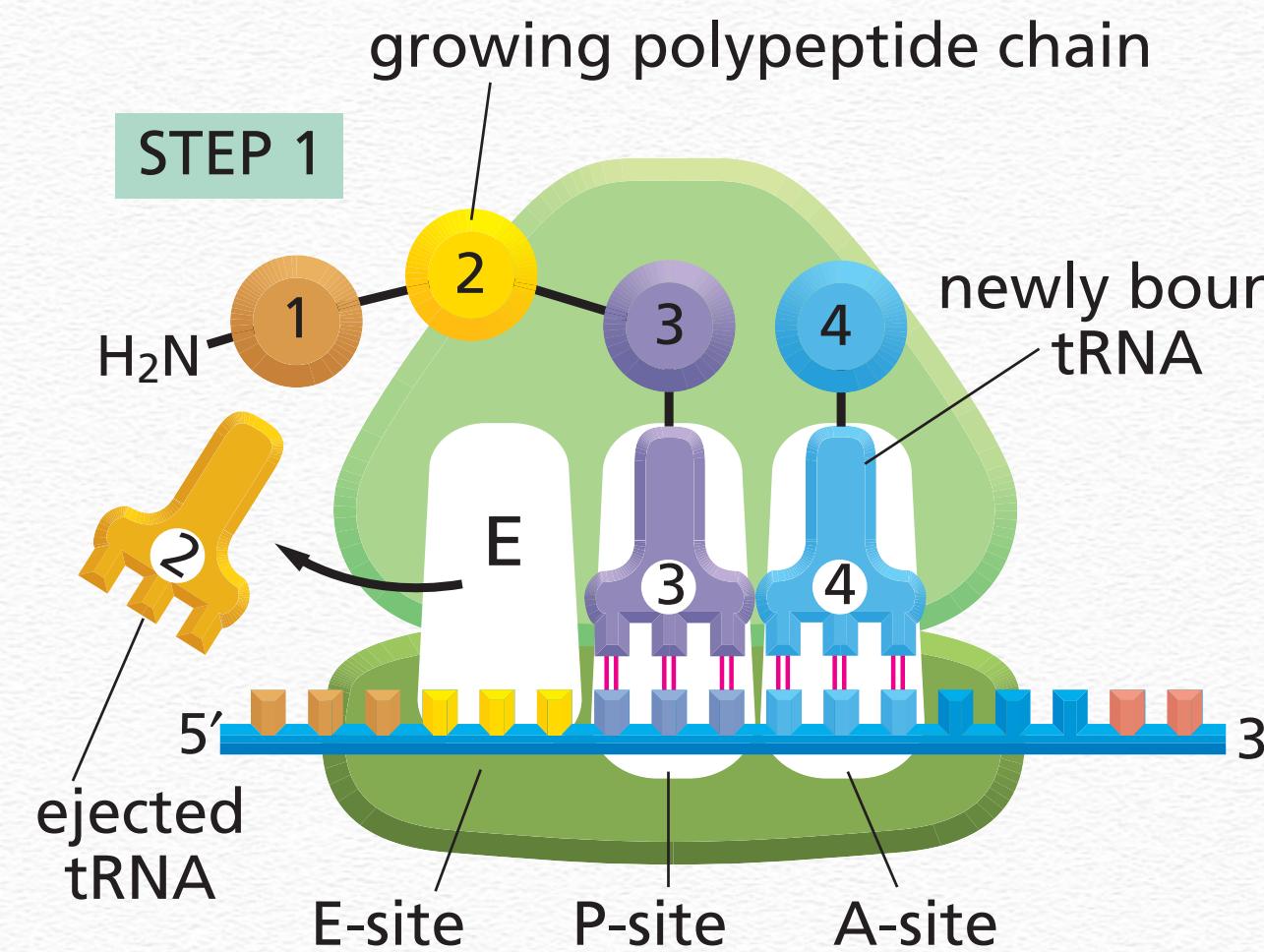


400 nm

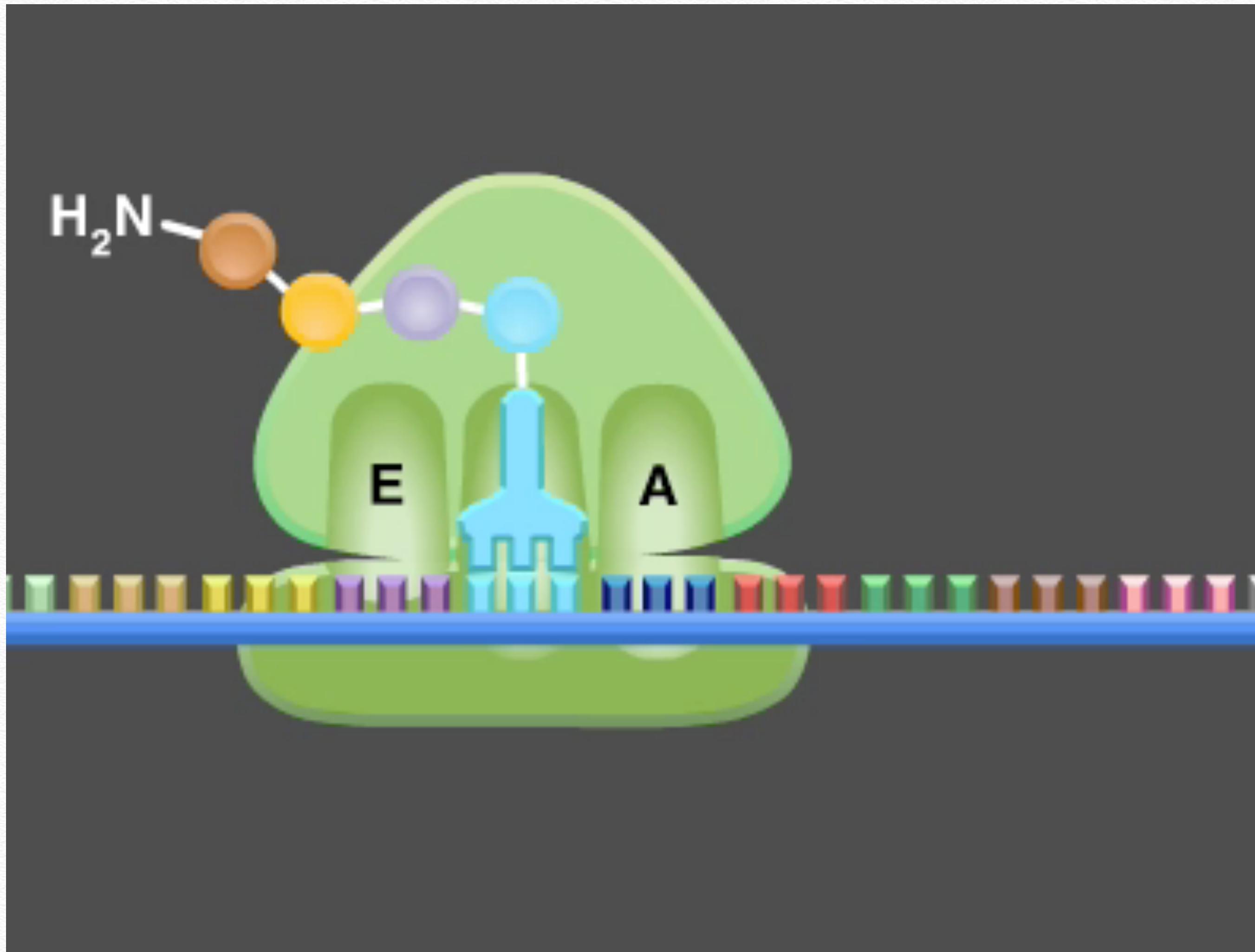
Translation



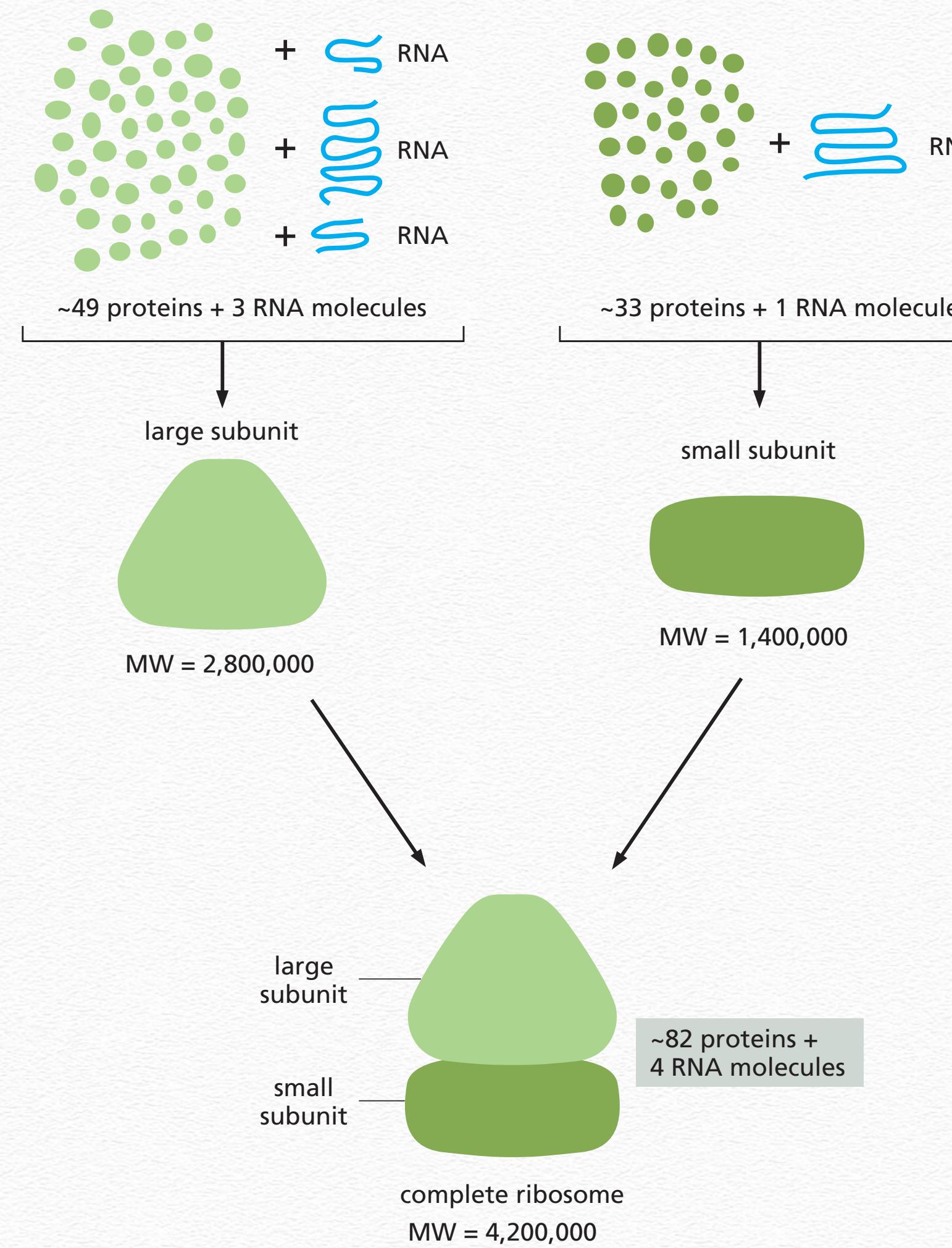
4-Steps



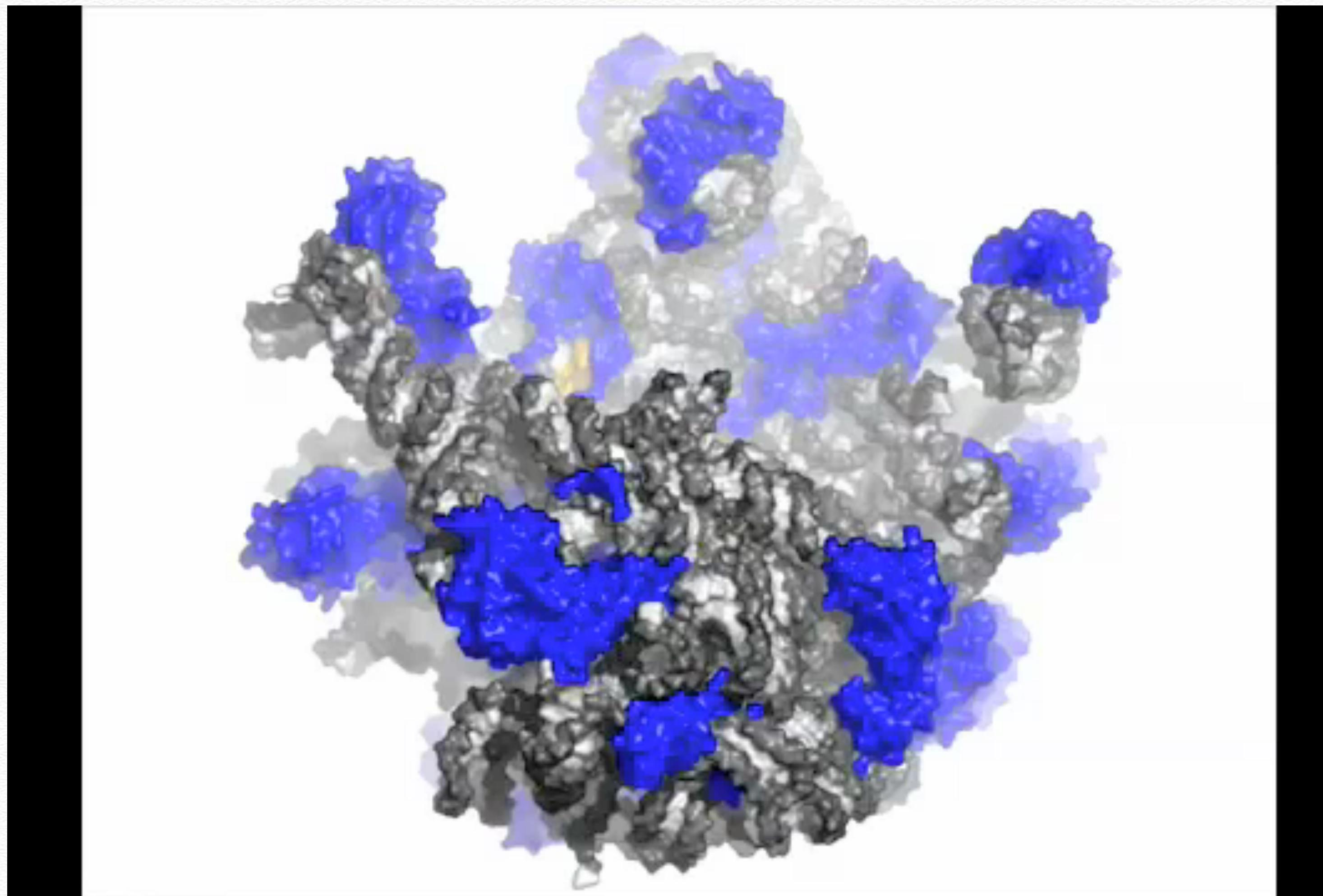
4-Steps



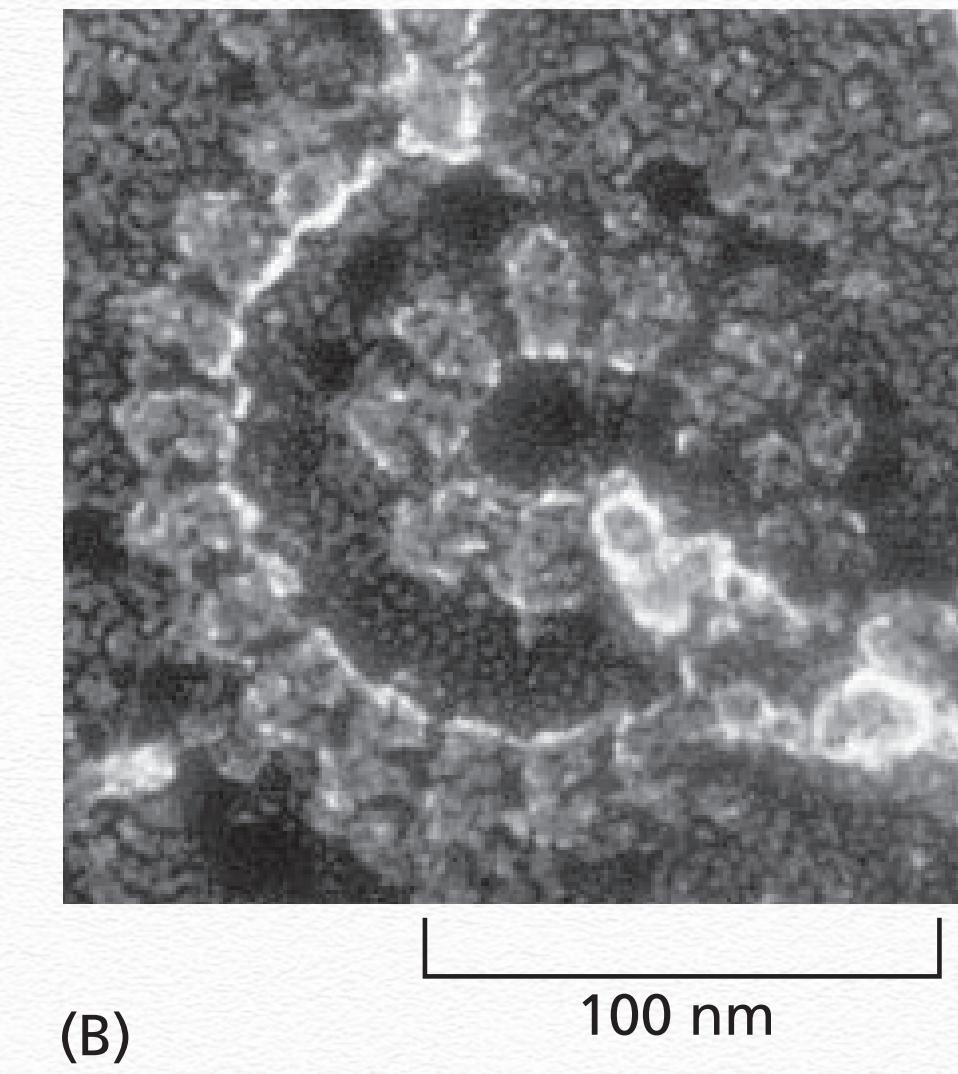
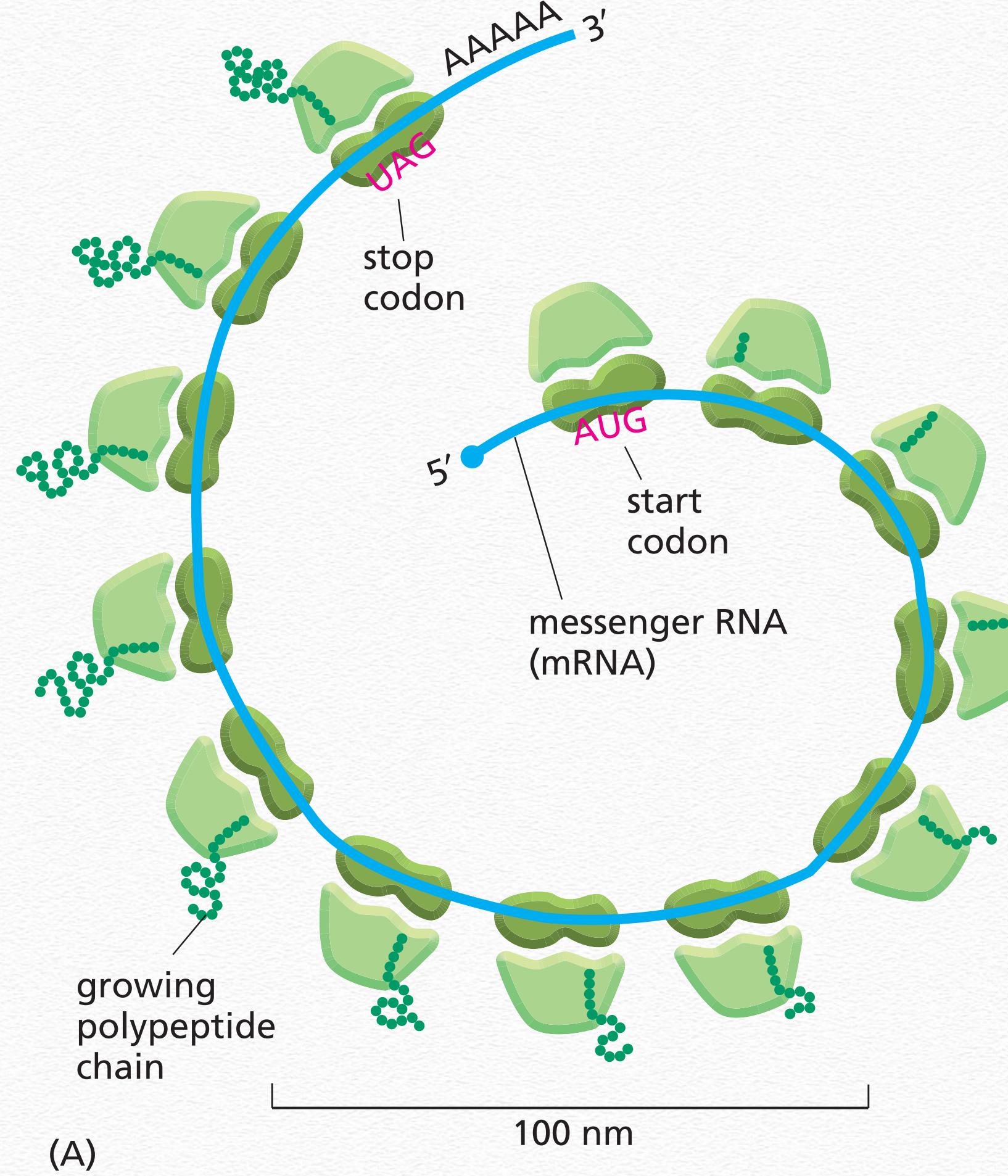
Ribosome Structure



Atomic Perspective



Polyribosomes



Polyribosomes

