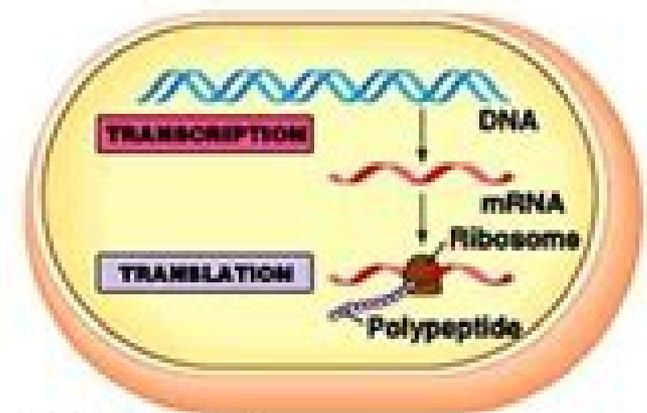


Gene expression التعبير الجيني

- **Formation of protein from DNA** يتكون البروتينات من **in two steps:-**
- **1. transcription** الانسلاخ (mRNA synthesis تخليق from DNA in the nucleus)
- **2. translation** الترجمة (protein synthesis at ribosomes in the cytoplasm).
- **Because bacteria lack nuclei** لا تحتوي على نواة، transcription and translation are coupled **متلازمان**.
- The DNA inherited **المتوارث** by an organism leads to **مجموعة من** specific traits **يؤدي الى** عن طريق **الخصائص** by the synthesis of proteins **تخليق البروتينات**.
- **Proteins are the links** روابط **between** **genotype and phenotype**.



(a) Prokaryotic cell



Chapter 17 From Gene To Protein Answers Reading Guide

Daniel L. Hartl, Elizabeth W. Jones



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