

OUTLINE 3

III. Control of Gene Expression in Prokaryotes

A. Regulatory proteins

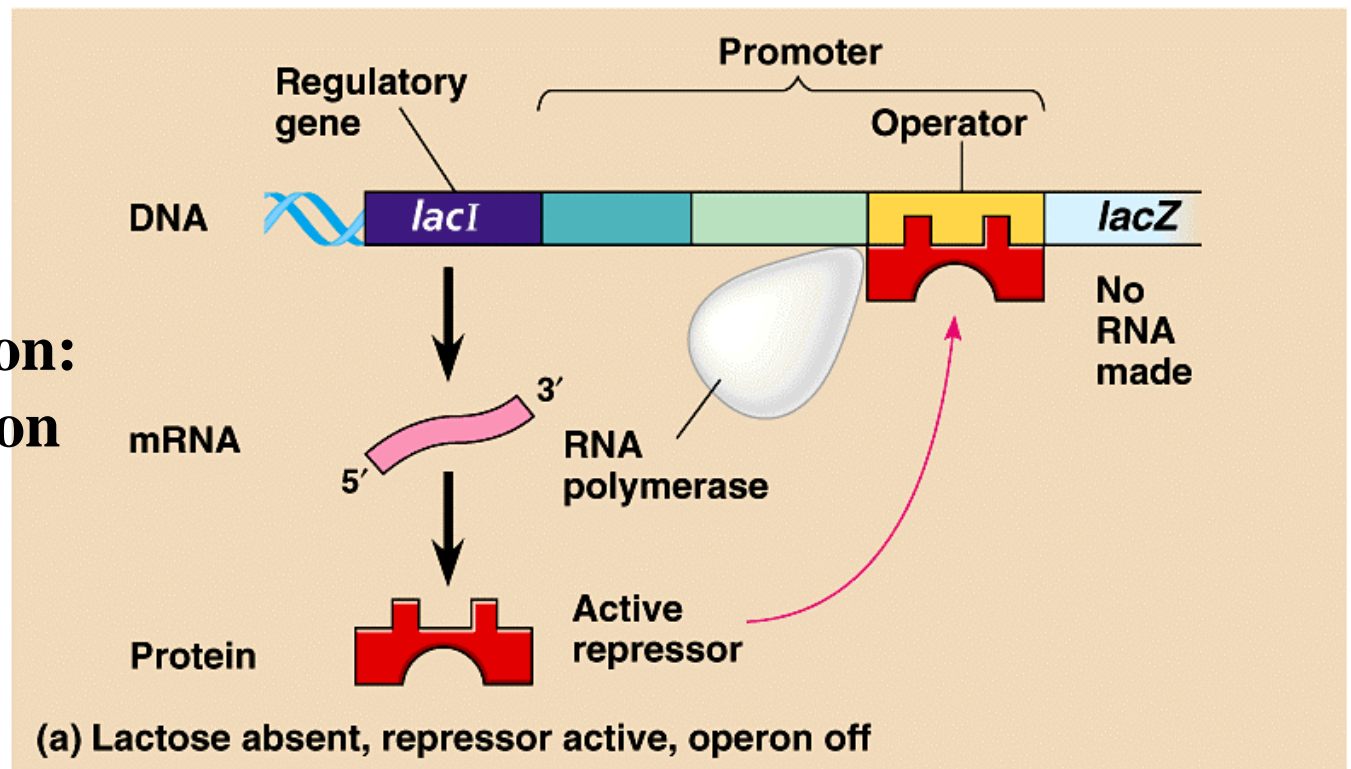
B. The operon model

C. Examples

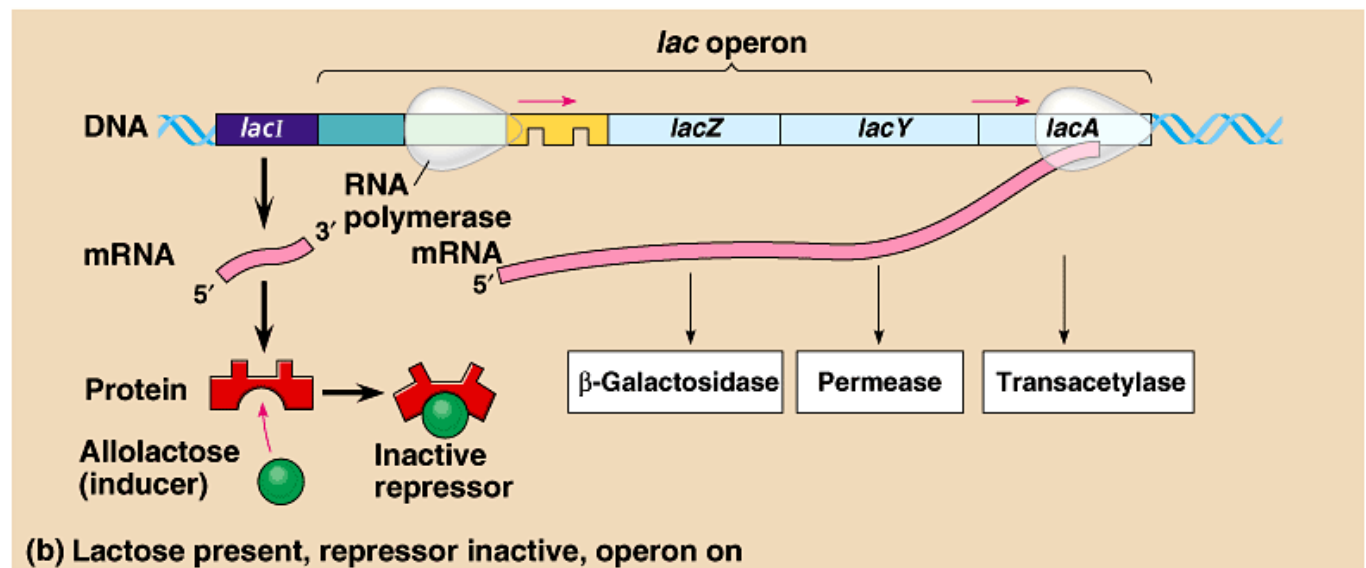
- 1. the lac operon (substrate induction)**
- 2. the tryp operon (end product repression)**
- 3. the lac operon (positive control)**

Fig. 18.21

Negative regulation: Substrate induction

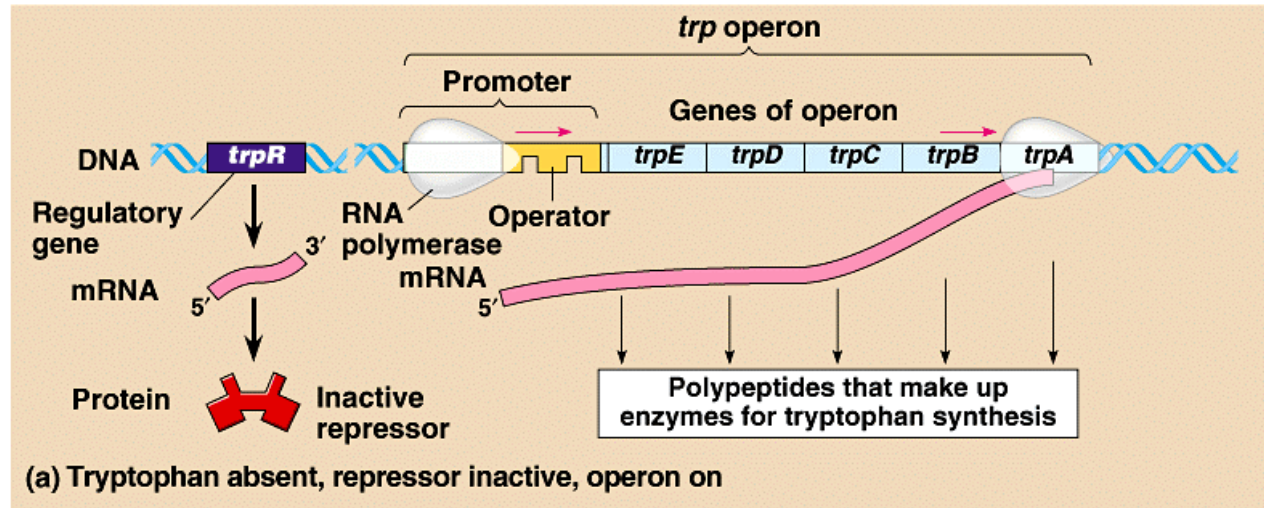


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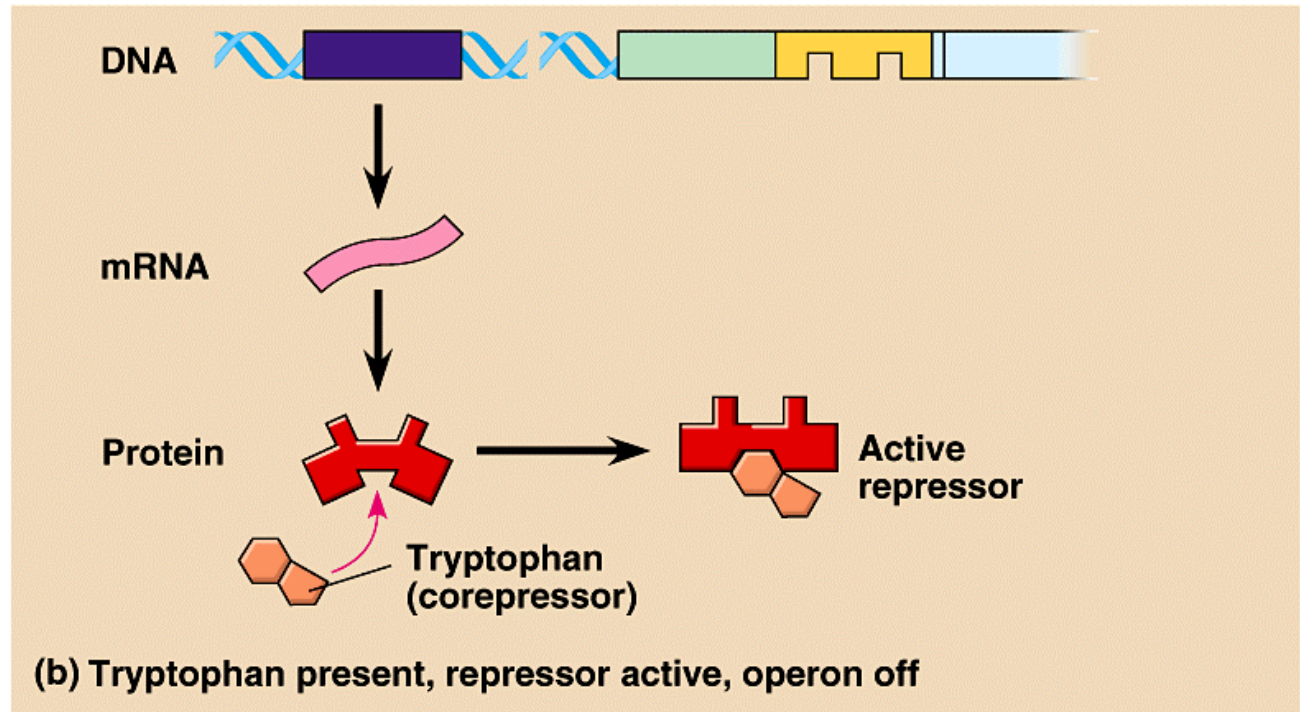


Negative regulation: end-product repression

Fig 18.20



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Fig. 18.22a

Positive regulation of the lac operon

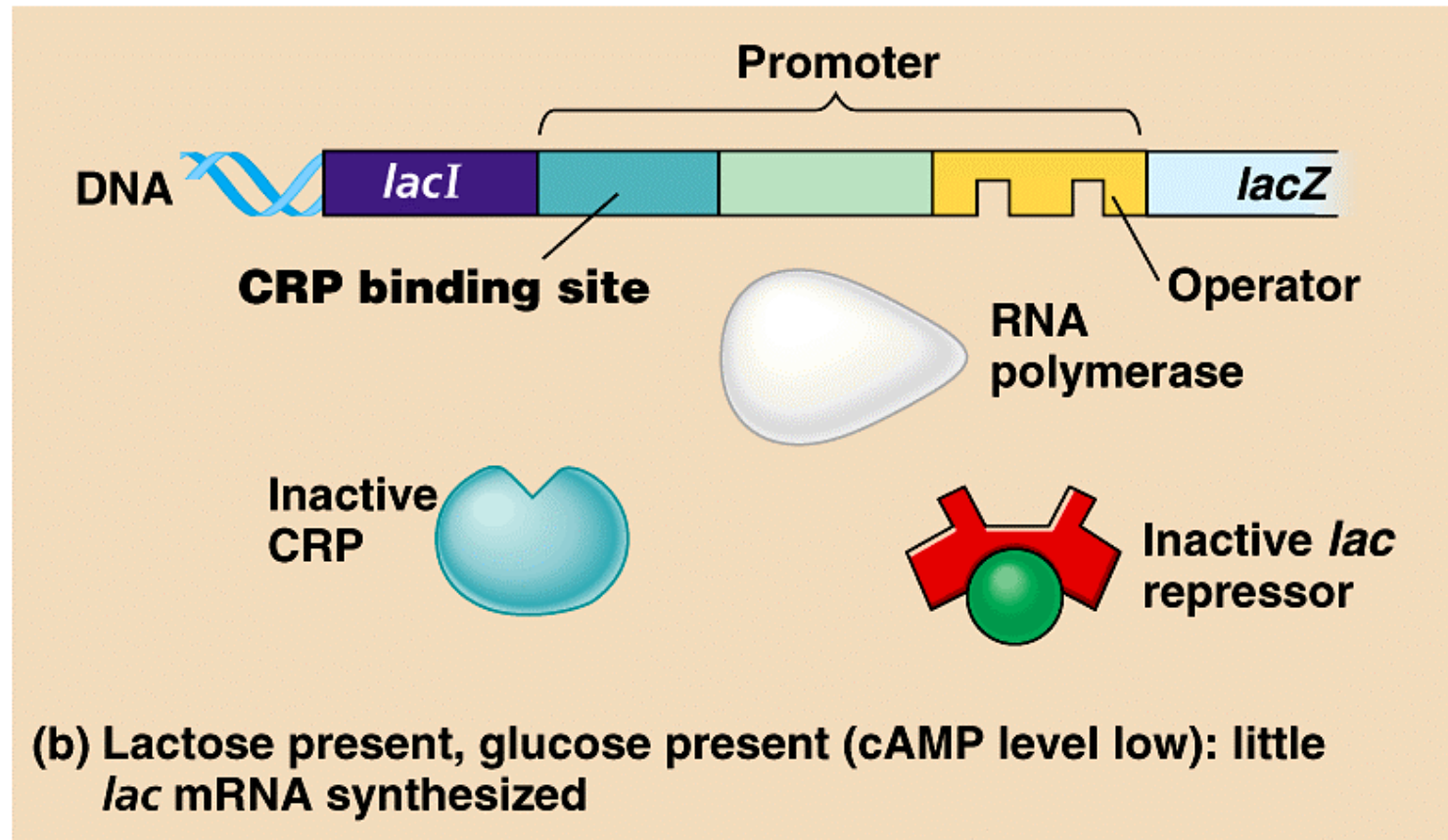


Fig. 18.22b

Positive regulation of the lac operon

