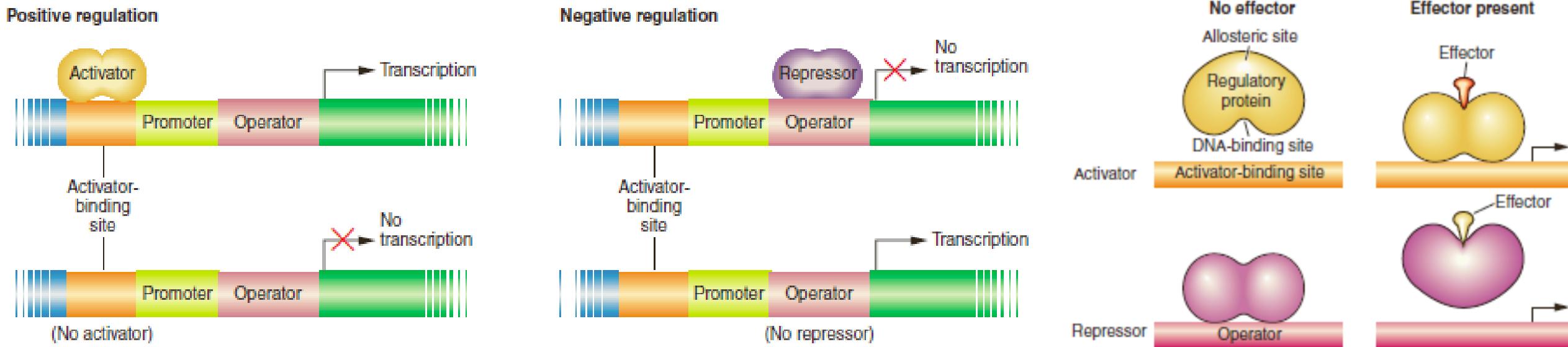
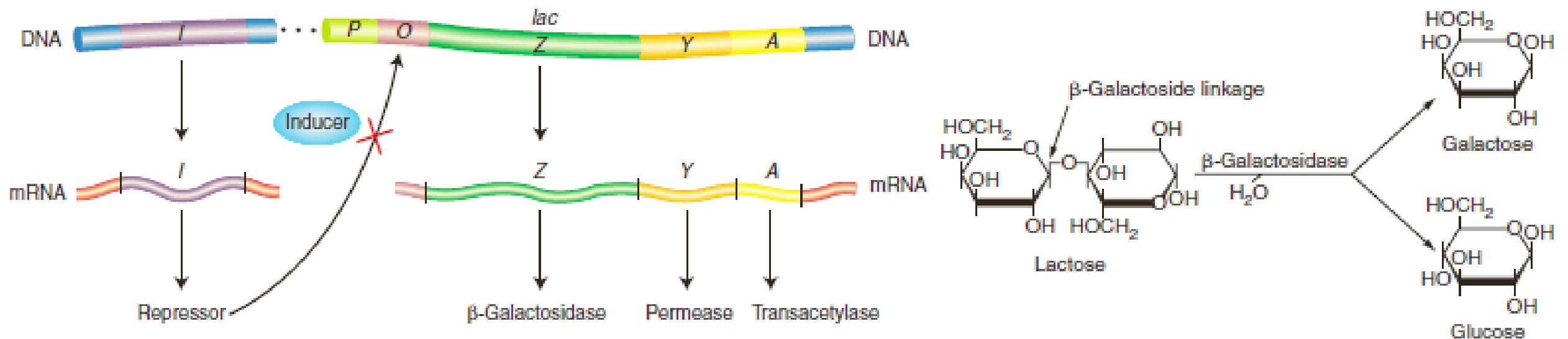
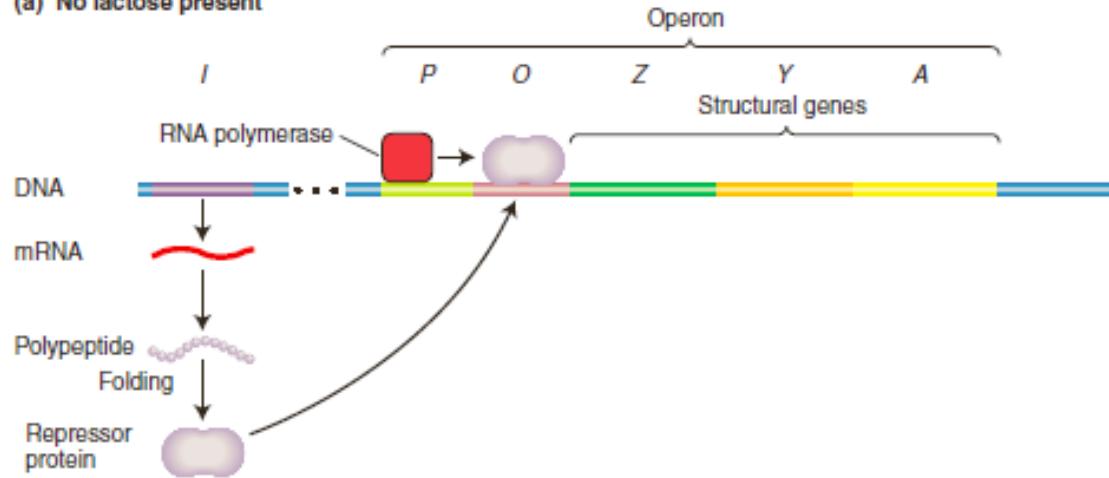


11. Gen ifadesinin Düzenlenmesi

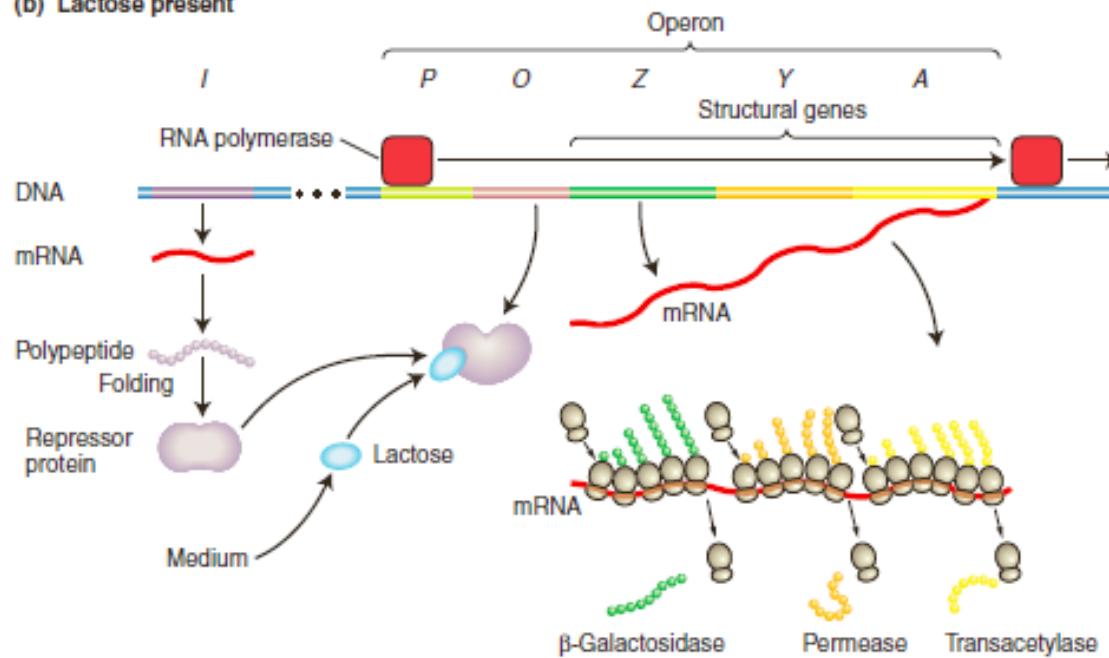




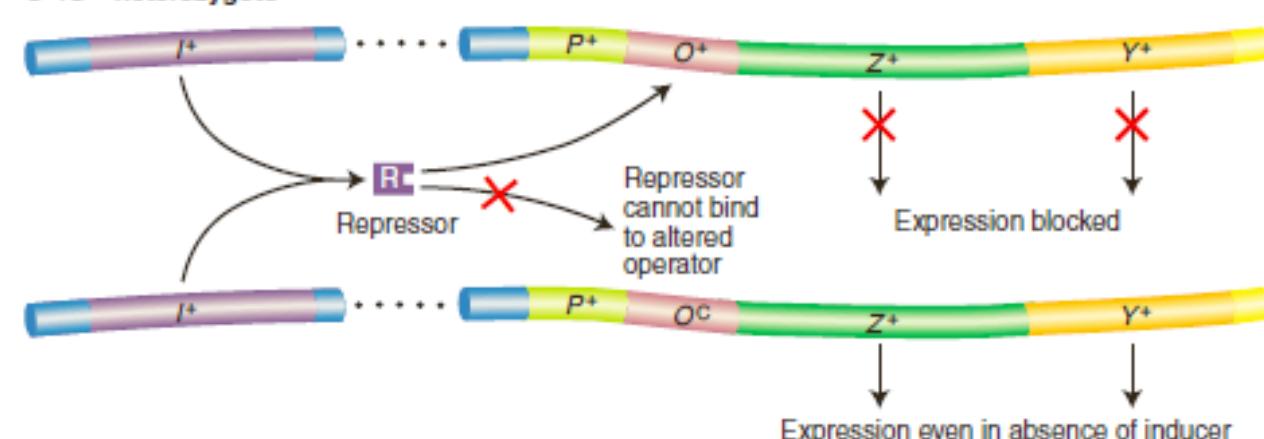
(a) No lactose present



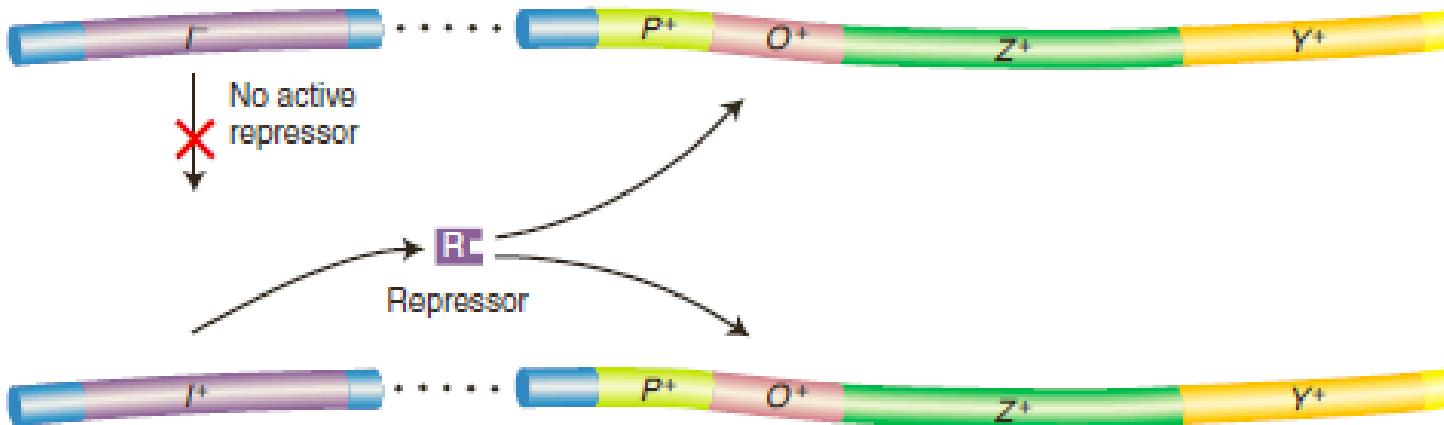
(b) Lactose present



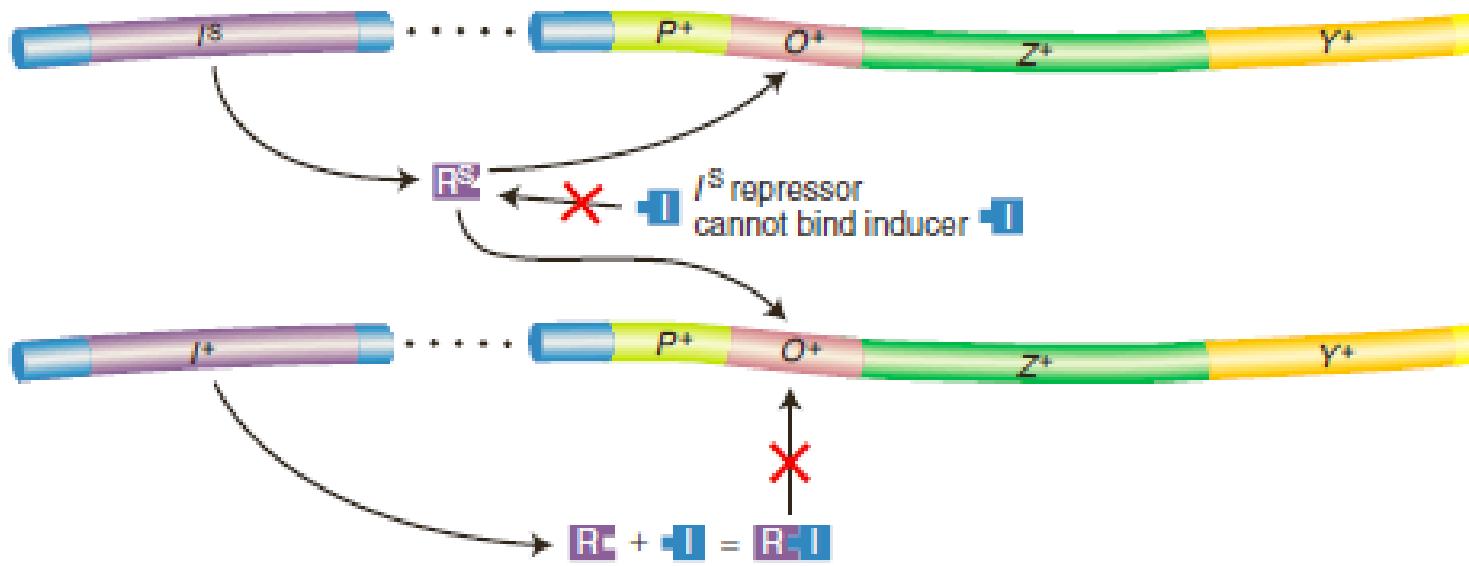
O⁺/O^C heterozygote

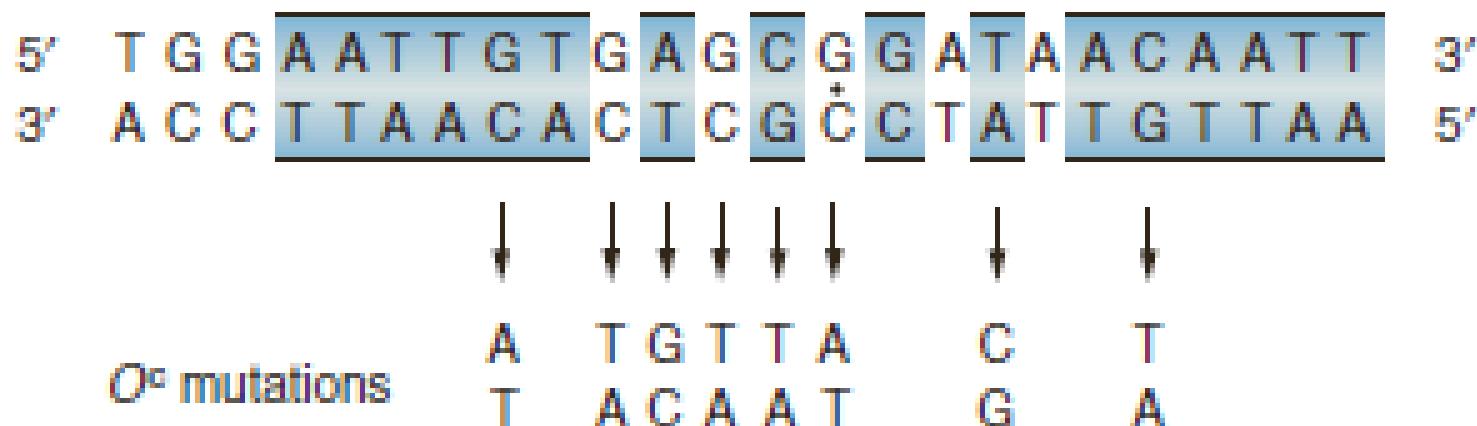
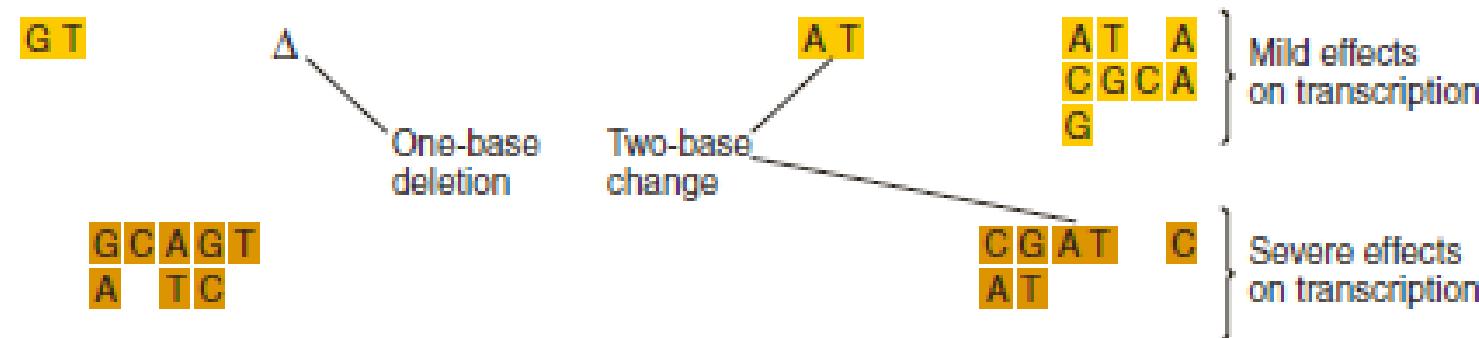
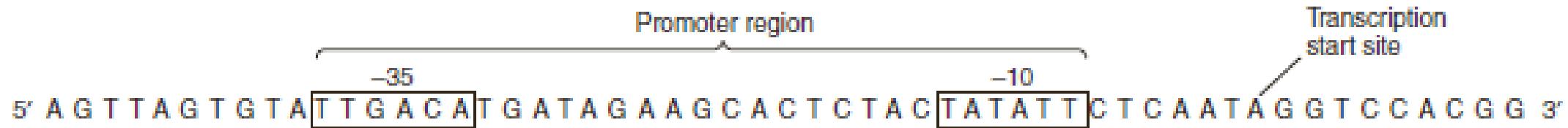


I⁺/I⁻ heterozygote

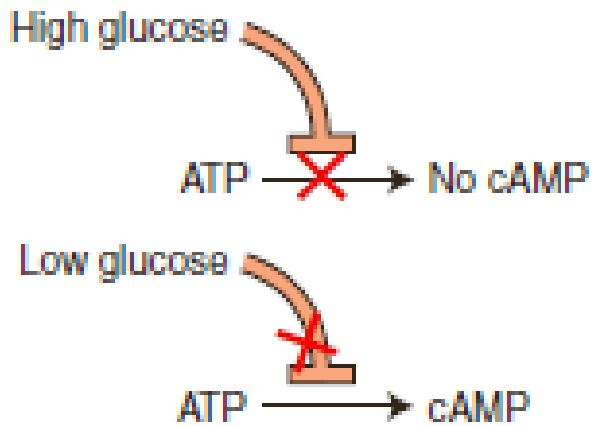


I⁺/I^S heterozygote

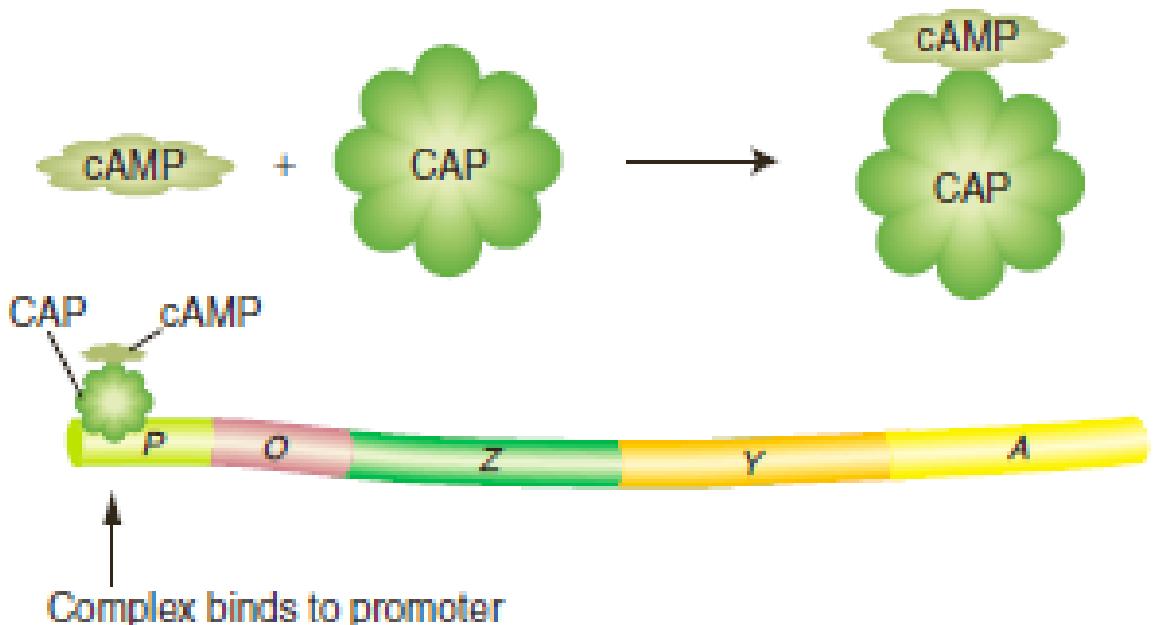




(a) Glucose levels regulate cAMP levels



(b) cAMP–CAP complex activates transcription

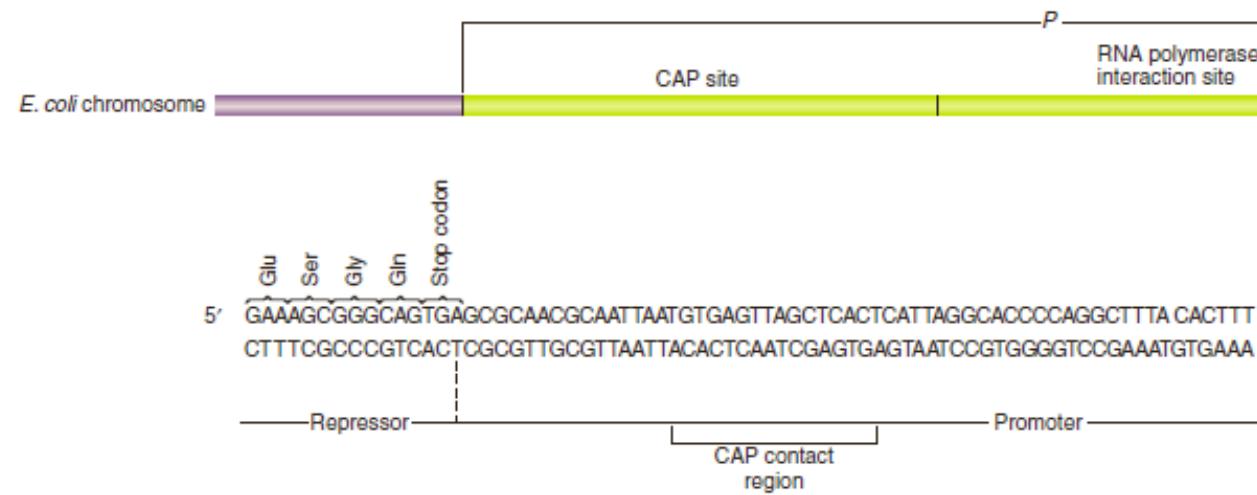


(a) lac operator

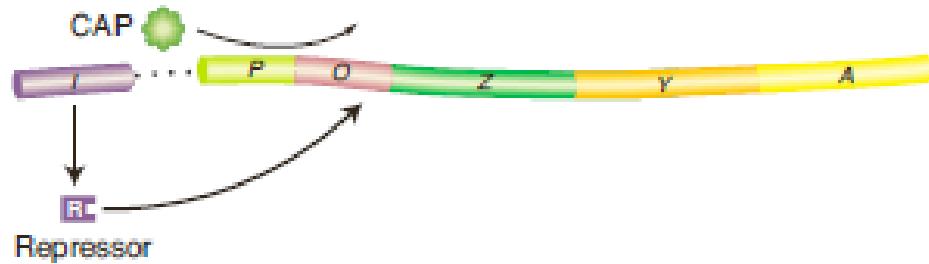


(b) CAP-binding site

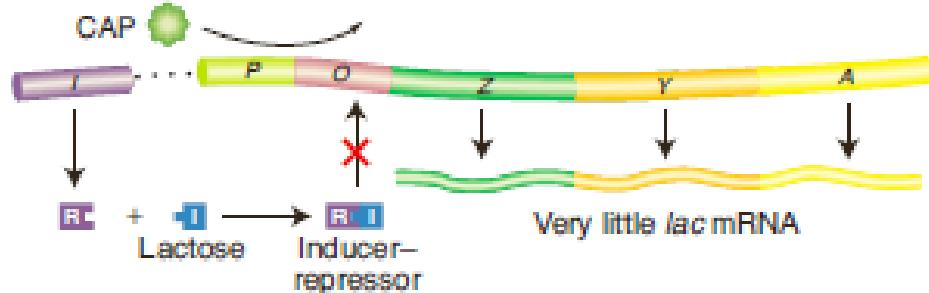




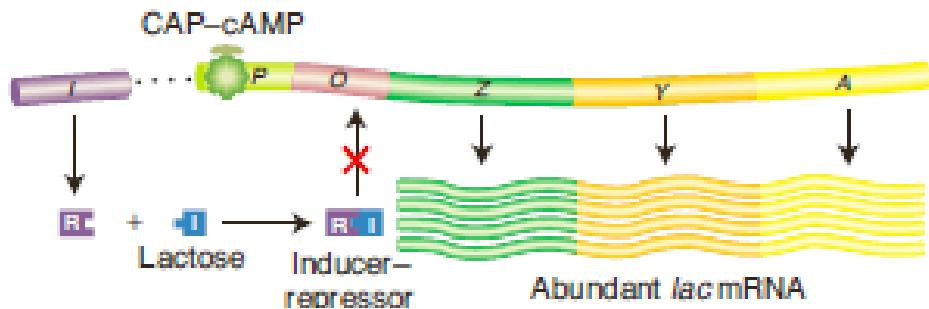
(a) Glucose present (cAMP low); no lactose; no lac mRNA



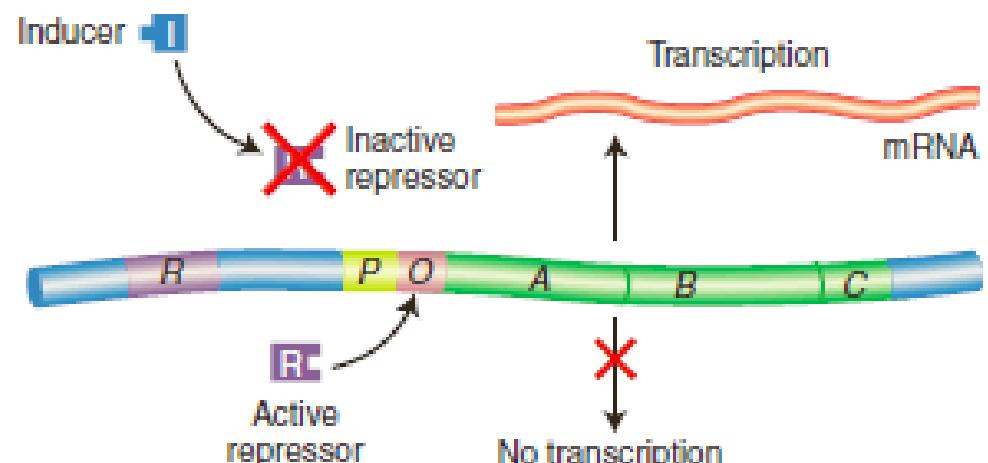
(b) Glucose present (cAMP low); lactose present



(c) No glucose present (cAMP high); lactose present



(a) Repression



(b) Activation

