



Figure 2-30. Genomic effects of cAMP.

1 = hormone-receptor coupling

2 = activation of G_s

3 = G_s binds GTP

4 = G_s activates adenyl cyclase (AC)

5 = formation of cAMP from ATP

6 = cAMP binds to the regulatory (inhibitory, I) subunit of a soluble protein kinase

7 = detachment of catalytic (C) subunits from regulatory subunits of protein kinase

8 = nuclear translocation of catalytic subunits

9 = phosphorylation of a nuclear regulatory protein

10 = transcription of a specific mRNA