



1. Please label on the figure above the promoters, operators and ORFs.
2. Please sketch on the figure above all the proteins that are present on the DNA when lambda exists as a lysogen.
3. Place a star anyplace there is a cooperative binding interaction, a check mark anyplace there is an activation contact.
4. Describe below what will happen if the concentration of repressor increases:

5. Please sketch on the figure below all the proteins that are present on the DNA when lambda grows lytically
6. Describe below what will happen if UV light strikes the drawing above and how that promotes the cell's switch to lytic growth

