Name	Course/Section
Date	Professor/TA



## Activity 18.1 How is gene expression controlled in bacteria?

Fill in the chart to organize what we know about the lac and trp operons.

Operon:	lac		trp		
Is the metabolic pathway anabolic or catabolic?	Catabolic Breaks down lactose			Anabolic Synthesizes tryptophan	
What regulatory genes are associated with the operon, and what functions does each serve?	Genes:	Functions:		Genes:	Functions:
What structural genes are included in each operon, and what does each produce?	Genes:	Products:		Genes:	Products:
Is the operon inducible or repressible?					
Is the repressor protein produced in active or inactive form?					
The repressor protein becomes active when it interacts with:					