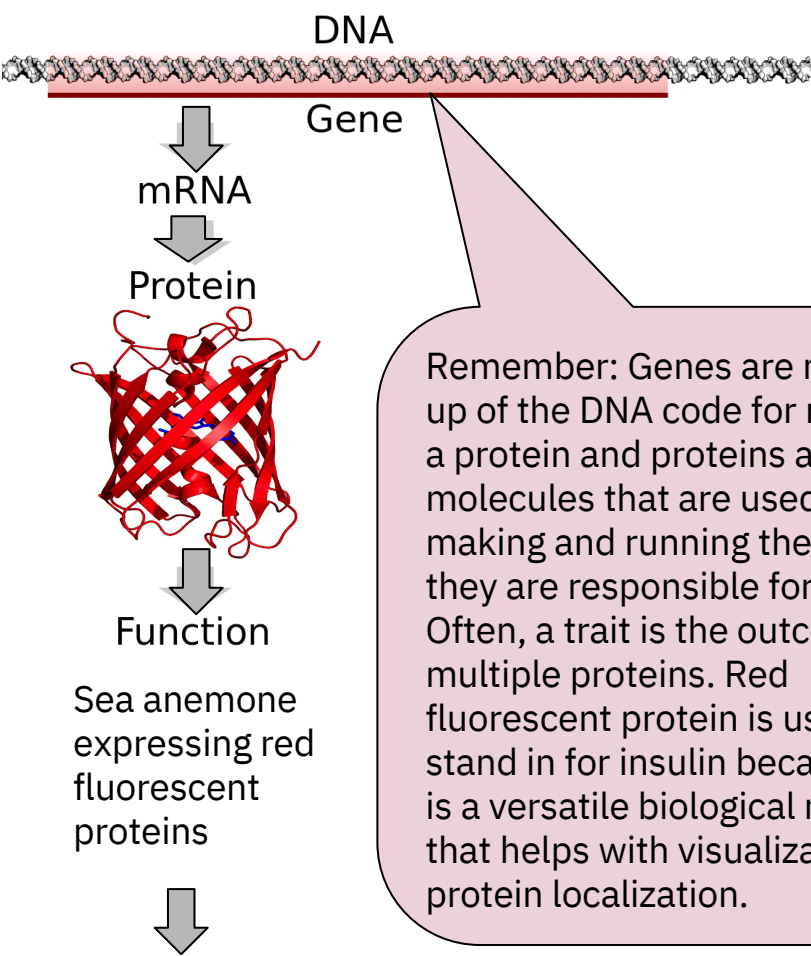


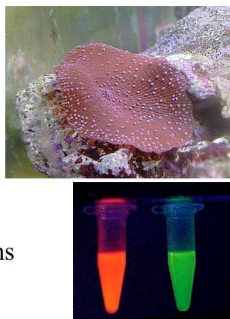
Laboratory 5A



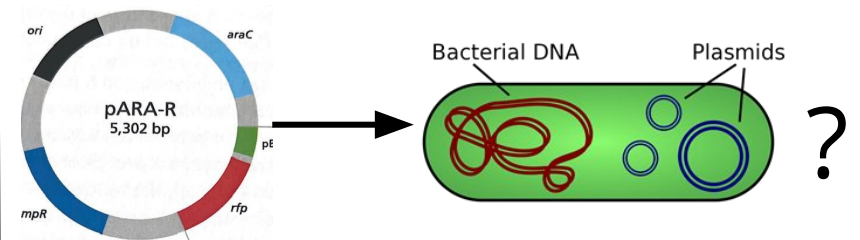
Remember: Genes are made up of the DNA code for making a protein and proteins are molecules that are used in making and running the cell so they are responsible for traits. Often, a trait is the outcome of multiple proteins. Red fluorescent protein is used as a stand in for insulin because it is a versatile biological marker that helps with visualization of protein localization.

RFP (Red Fluorescent Protein)

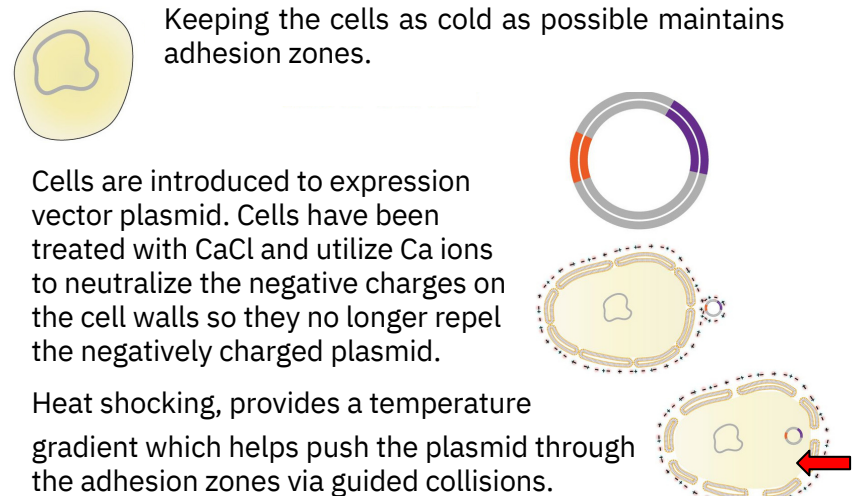
- Naturally produced in *Discosoma sp.* (a sea anemone)
- Discovered in 1999
- Similar to GFP
- Led to the discovery of several of GFP-like proteins



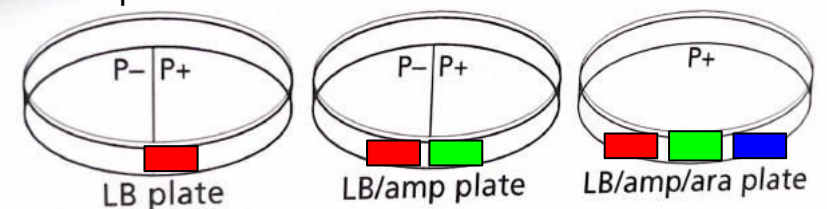
How do we get our pARA-R plasmid into a competent bacterial cell so that we can express the rfp gene?



Transformation with competent cells:



Then plate!



What's in my tubes?

