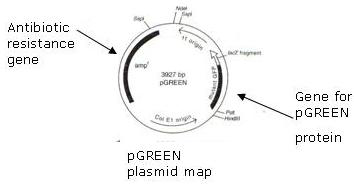
**AP Biology pGreen Transformation Poster Instructions:**

1. Background
   1. Describe why CaCl2 and heat-shocking bacteria are necessary for bacterial transformation (Hint: The DNA Tech power point talks about “competence”)
   2. Below is a picture of the genetically engineered plasmid that you inserted into your bacteria:



* 1. Describe the purpose of the antibiotic resistance gene.
  2. Hypothesize about what organism gave us the pGreen gene (Hint: think about what the gene does). Explain why you think that.
  3. Describe the sterile techniques that you needed to use to prevent contamination as you did the lab.

1. Hypotheses/explanation
   1. You should have a hypothesis about whether you should see growth on each of the plates in this lab: LB + plasmid, LB –plasmid, LB/AMP + plasmid, LB/AMP – plasmid.
   2. Describe why you think that there will or will not be growth on each of these plates.
2. Data-Include drawings of what happened on each plate
3. Conclusions-Questions 4-10 on your lab data sheet.