

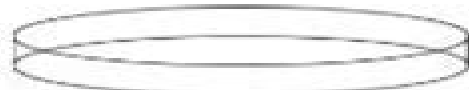
**LAB \_\_\_\_: CLONING PAPER PLASMID**

In this exercise you will use paper to simulate the cloning of a gene from one organism into a bacterial plasmid using a restriction enzyme digest. The plasmid (puc18 plasmid) can then be used to transform bacteria so that it now expresses a new gene and produces a new protein.

1. From the white paper, cut out the puc18 plasmid DNA in a long strip.

AAATCGTTTGC

2. Attach the ends together to make a loop to simulate the circular DNA of a plasmid.



3. From the green paper, cut out the Jellyfish *Glo* gene DNA in a long strip. Leave it as a straight strip. (This is a gene from a vertebrate not a bacterium, so it is not circular.)

GGATCGAAAGC

The start and stop sequences for transcribing the Jellyfish *GFP* or *Glo* gene are highlighted. These are needed to transcribe the gene properly when it is read.

In addition, the *Hind*III & *Eco*R1 restriction enzyme cutting sites (sequences of bases) are marked in **bold** on the Jellyfish *Glo* gene DNA. The two restriction enzymes and their respective restriction sites are listed below. These enzymes act as "molecular scissors" to cut the DNA at these sequences in the DNA:

| Restriction enzyme | Recognition site (5'→3') |
|--------------------|--------------------------|
| <i>Hind</i> III    | <b>A</b> ↓AGCT <b>T</b>  |
|                    | <b>T</b> TCGA↑ <b>A</b>  |
| <i>Eco</i> R1      | <b>G</b> ↓AATT <b>C</b>  |
|                    | <b>C</b> TTAA↑ <b>G</b>  |

The six letter sequence represents the nitrogen base sequence that the enzyme recognizes, and ↓ represents the place where the DNA will be cut by the enzyme. For example, *Hind*III cuts between A and A whenever it encounters the six base sequence AAGCTT.

4. Cut the green Jellyfish DNA as if you have used the a restriction enzyme, *Hind*III. Be sure to leave "sticky ends."
5. Also, cut the white puc18 plasmid DNA as if you have performed a restriction enzyme digest with *Hind*III. Be sure to leave "sticky ends."



# Biology Lab Cloning Paper Plasmid Answers

**S Marginson**



## **Biology Lab Cloning Paper Plasmid Answers:**

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