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

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



From the green paper, cut out the Jellyfish G/o 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

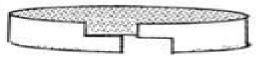
The <u>start</u> and <u>stop</u> sequences for transcribing the Jellyfish GFP or Glo gene are highlighted. These are needed to transcribe the gene properly when it is read.

In addition, the HindIII & EcoR1 restriction enzyme cutting sites (sequences of bases) are marked in **bold** on the Jellyfish GIo 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')
Hindill	A LAGCT T
	T TCGATA
EcoRI	G AATT C
	C TTAA†G

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, Hindlill cuts between A and A whenever it encounters the six base sequence AAGCTT.

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



Biology Lab Cloning Paper Plasmid Answers

RD Boyd

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