

# GENE SPLICING ACTIVITY



Let's explore!

**GENE SPLICING:** Production of human growth hormone.

**Objective:** Illustrate how production of human growth hormone is done using recombinant DNA technology.

**Materials:** long bond paper, scissors, clear tape, colored paper, ruler, pencil

**Procedure:** Read, understand, and follow the procedure below.

1. Prepare the materials.
2. Cut a one-inch-wide strip of the bond paper vertically (longer side). Shape it into a circular loop and secure it with tape. This represents a bacterial **plasmid**.
3. Cut a one-inch-wide strip of the colored paper horizontally. This represents the gene coding for **human growth hormone**.
4. To do 'gene splicing', use the scissors to cut open the plasmid. The scissors represent the **restriction enzyme** opening the plasmid.
5. Tape the colored paper into the place where the plasmid was open, reforming the loop. The tape represents the **enzyme ligase** that affixes the new gene into the plasmid. This new plasmid with recombinant DNA is ready to be inserted into a bacterium so it can make growth hormone.

# High School Gene Splicing Activity

**Puja Mehta**

A decorative red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

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