

CONCEPT: TRACKING PROTEINS IN CELLS

- It is important for researchers to be able to find and monitor a molecule's _____ in a cell
 - **In situ hybridization** can identify where a particular RNA or DNA is in the cell
 - Incubates probes labeled with fluorescence or radioactivity with fixed cells
 - **Reporter genes** can be fused to proteins to identify a protein's location or movement in a cell
 - **Green fluorescent protein (GFP)** is a protein that has a green fluorescence
 - When fused to a recombinant protein, GFP will mark the protein of interest with green fluorescence
 - When available, antibodies can also be used to identify a protein's location in a cell

EXAMPLE:

