

Part B

Exchange your original and mutated strands with another group. Tell the other group your protein's original function.

Using the new strands your received from another group answer the following:

How did these mutations structurally change the DNA strand?

What is this called?

Transcribe both the original and mutated strands.

In which direction does RNAPol move relative to the DNA template strand?

Translate both the original and mutated mRNA.

In which direction does the ribosome move relative to the mRNA strand?

When the new mature mRNA is translated, will anything change about which amino acids are used to make the polypeptide?

What is this called?

Recall the function that was originally assigned to this protein and the information provided about how the mutation does or does not affect this function.

Has this mutation changed the function of the protein?

What is this called?