

Mutations Worksheet

Name _____

In each of the following DNA sequences, you will use the mRNA and amino acid sequences to identify the mutation that occurred and the effects of each on, if any. Look and analyze carefully!

Original DNA Sequence: T A C A C C T T G G C G A C G A C T
mRNA Sequence: _____
Amino Acid Sequence: _____

Mutated DNA Sequence #1: T A C A T C T T G G C G A C G A C T
What's the mRNA sequence? (Circle the change) _____
What will be the amino acid sequence? _____
Will there likely be effects? _____
What kind of mutation is this? _____

Mutated DNA Sequence #2: T A C G A C C T T G G C G A C G A C T
What's the mRNA sequence? (Circle the change) _____
What will be the amino acid sequence? _____
Will there likely be effects? _____
What kind of mutation is this? _____

Mutated DNA Sequence #3: T A C A C C T T A G C G A C G A C T
What's the mRNA sequence? (Circle the change) _____
What will be the amino acid sequence? _____
Will there likely be effects? _____
What kind of mutation is this? _____

Mutated DNA Sequence #4: T A C A C C T T G G C G A C T A C T
What's the mRNA sequence? (Circle the change) _____
What will be the amino acid sequence? _____
Will there likely be effects? _____
What kind of mutation is this? _____

Mutated DNA Sequence #1: T A C A C C T T G G G A C G A C T
What will be the corresponding mRNA sequence? _____
What will be the amino acid sequence? _____
Will there likely be effects? _____
What kind of mutation is this? _____