

There are three main types of mutations: point missense mutations, point nonsense mutations, and frameshift mutations. 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! 10 points

Original DNA Sequence: T A C A C C T T G G C G A C G A C T
mRNA Sequence: AUG UGG AAC CGC UGC UGA
Amino Acid Sequence: Met Trp Asn Arg Cys STOP

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? AUG UGG AAC CGC UGC UGA (Circle the change)
 What will be the amino acid sequence? Met stop
 Will there likely be effects? Yes, No protein is translated What kind of mutation is this? Substitution Point missense

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? AUG GUG GAA CCG CUG CUG A (Circle the change)
 What will be the amino acid sequence? Met Leu Glu Pro Leu
 Will there likely be effects? Yes, useless, damaging protein could be produced since there's not stop codon and energy will be sapped. What kind of mutation is this? Insertion, frameshift

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? AUG UGG AAG CGC UGC UGA (Circle the change)
 What will be the amino acid sequence? Met Trp Asn Arg Cys stop
 Will there likely be effects? NO What kind of mutation is this? Substitution, Silent mutation due to redundancy in codons

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? AUG UGG AAC CGC UGA UGA (Circle the change)
 What will be the amino acid sequence? Met Trp Asn Arg stop
 Will there likely be effects? Possibly, depends what role that last, one and only missing aa plays in the shape of the protein, What kind of mutation is this? Point, substitution, missense.

Mutated DNA Sequence #5: T A C A C C T T G G G A C G A C T
 What will be the corresponding mRNA sequence? AUG UGG AAC CCU GCU GA
 What will be the amino acid sequence? Met Trp Asn Pro Ala
 Will there likely be effects? yes. What kind of mutation is this? POINT, DELETION, MISSENSE, frameshift

1. Which type of mutation is responsible for new variations of a trait? substitution
2. Which type of mutation results in abnormal amino acid sequence? frameshift
3. Which type of mutation stops the translation of the mRNA? Point mutation producing a stop codon after Met.
4. Which type of mutation is responsible for a new trait? _____

Gene And Chromosome Mutation Answer Key

Lei Huang



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