

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? _____

Mutation Concept Fill In Work Sheet

Michael Rajnik

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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Table of Contents Mutation Concept Fill In Work Sheet

1. Understanding the eBook Mutation Concept Fill In Work Sheet
 - The Rise of Digital Reading Mutation Concept Fill In Work Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Mutation Concept Fill In Work Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mutation Concept Fill In Work Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mutation Concept Fill In Work Sheet

- Personalized Recommendations
- Mutation Concept Fill In Work Sheet User Reviews and Ratings
- Mutation Concept Fill In Work Sheet and Bestseller Lists
- 5. Accessing Mutation Concept Fill In Work Sheet Free and Paid eBooks
 - Mutation Concept Fill In Work Sheet Public Domain eBooks
 - Mutation Concept Fill In Work Sheet eBook Subscription Services
 - Mutation Concept Fill In Work Sheet Budget-Friendly Options
- 6. Navigating Mutation Concept Fill In Work Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Mutation Concept Fill In Work Sheet Compatibility with Devices
 - Mutation Concept Fill In Work Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mutation Concept Fill In Work Sheet
 - Highlighting and Note-Taking Mutation Concept Fill In Work Sheet
 - Interactive Elements Mutation Concept Fill In Work Sheet
- 8. Staying Engaged with Mutation Concept Fill In Work Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mutation Concept Fill In Work Sheet
- 9. Balancing eBooks and Physical Books Mutation Concept Fill In Work Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mutation Concept Fill In Work Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mutation Concept Fill In Work Sheet
 - Setting Reading Goals Mutation Concept Fill In Work Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mutation Concept Fill In Work Sheet

-
- Fact-Checking eBook Content of Mutation Concept Fill In Work Sheet
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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