

NAME \_\_\_\_\_

## Mutations Worksheet

### Deletion, Insertion & Substitution



There are several types of mutations:

- > **DELETION** (a base is lost/deleted)
  - Deletion & insertion may cause what's called a **FRAMESHIFT** mutation, meaning the **reading "frame"** changes, thus changing the amino acid sequence from this point forward
- > **INSERTION** (an extra base is added/inserted)
  -
- > **SUBSTITUTION** (one base is substituted for another)
  - If a substitution **changes** the amino acid, it's called a **MISSENSE** mutation
  - If a substitution **does not change** the amino acid, it's called a **SILENT** mutation
  - If a substitution **changes the amino acid to a "stop,"** it's called a **NONSENSE** mutation



Complete the boxes below. Classify each as **Deletion**, **Insertion** or **Substitution** **AND** as either **frameshift**, **missense**, **silent** or **nonsense** (**Hint**: Deletion & Insertion will always be frameshift).

Original DNA Sequence: T A C A C C T T G G C G A C G A C T ...

mRNA Sequence: A U G U G G A A C C G C U G C U G A

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? A U G U A G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - nonsense

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? A U G C U G G A A C C G C U G C U G A (Circle the change)

amino acid sequence? MET - LEU - GLU - PRO - LEU - LEU

Will there likely be effects? yes What type 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? A U G U G G A A T C G C U G C U G A (Circle the change)

amino acid sequence? MET-TRP-ASN- ARG- CYS - STOP

Will there likely be effects? no What type of mutation is this? point mutation - silent

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? A U G U G G A A C C G C U G A U G A (Circle the change)

amino acid sequence? MET - TRP - ASN - ARG - STOP

Will there likely be effects? yes What type of mutation is this? point mutation - nonsense

# Gene Mutation Worksheet Answers

**Patrick Vollmar**



## Gene Mutation Worksheet Answers:

*CK-12 Biology Teacher's Edition* CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher's Edition complements the CK 12 Biology Student Edition FlexBook [Jacaranda Nature of Biology 2 VCE Units 3 and 4](#), [LearnON](#) and [Print](#) Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022-2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs [Genetic Counseling Practice](#) Bonnie S. LeRoy, Patricia M. Veach, Nancy P. Callanan, 2020-09-10 The second edition of Genetic Counseling Practice Advanced Concepts and Skills provides in depth content regarding the advanced competencies for meeting patient needs across the changing landscape of genetic counseling practice The content aligns with the Reciprocal Engagement Model REM of practice which integrates the biomedical knowledge and psychosocial aspects of genetic counseling This edition has been revised and expanded to reflect advances made in the present day field Edited by a team two genetic counselors and a psychologist the chapters offer a holistic picture of genetic counseling Chapter authors are all recognized experts in the profession The chapters are grounded in evidence based practice and research Each chapter includes learning activities to help readers apply concepts and skills Featured topic areas include Meeting the needs of culturally diverse patients Addressing challenging patient dynamics Working with children adolescents and families Using emerging service delivery models for genetic counseling Engaging in self reflective deliberate practice Promoting genetic counselor professional development Genetic Counseling Practice is an indispensable guide to the complex and evolving field of genetic counseling and this updated second edition will help practitioners and trainees alike navigate its most pressing and practical challenges with skill and care *Emerging Infectious Diseases*, 2013

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**Genetics** Benjamin A. Pierce, 2008 Third edition of Genetics A conceptual Approach includes thorough streamlining of the entire text to focus on core concepts **Science Insights** , 1999 **Lesson Guide for Captioned Films, XX** , 1984

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**Addison-Wesley Science Insights** ,1996

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