Mutations Worksheet Name Date: Per.

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: TACACCTTGGCGACGACT

mRNA Sequence: AUG UGG AAC CGC UGC UGA

Amino Acid Sequence: Met Trp Asn Arg Cys STOP

Mutated DNA Sequence #1: TACATCTTGGCGACGACT

What's the mRNA sequence? AUG UMG 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: TACGACCTTGGCGACGACT

What's the mRNA sequence? AUG EUG 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 supped. What kind of mutation is this? Insertion, frameshift

Mutated DNA Sequence #3: TACACCTTAGCGACGACT

What's the mRNA sequence? AUG UGG AAU CGC 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: TACACCTTGGCGACTACT

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 an plays in the shape of the

protein. What kind of mutation is this? Point, substitution, missense.

Mutated DNA Sequence #5: TACACCTTGGGACGACT

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
- 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?

# **Mutations And Genetic Conditions Answer Key For All**

**Roman Wölfel** 

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