1. Directions: research one BENEFICIAL and one HARMFUL mutation in humans and fill in the respective graphic organizer.

**BENEFICIAL MUTATION:**

ARTICLE TITLE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AUTHOR:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SOURCE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE:\_\_\_\_\_\_\_\_\_\_\_\_

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| SUBJECT: |  |  |
| MAIN IDEA: |  |  |
| DETAIL #1 | DETAIL #2 | DETAIL #3 |

**HARMFUL MUTATION:**

ARTICLE TITLE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AUTHOR:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SOURCE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE:\_\_\_\_\_\_\_\_\_\_\_\_

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| MAIN IDEA: |  |  |
| DETAIL #1 | DETAIL #2 | DETAIL #3 |

1. **SUMMARY:** Use your research to write a summary of each mutation. Be sure to answer the following questions in your summary:
2. What type of mutation causes the disorder?
3. What happens to the function and structure of the resulting protein?
4. What are signs and symptoms of the disorder?
5. How often does it occur in the population?
6. What are the treatments of this mutation?

**REQUIREMENTS:**

1. Your summary must be at least 250 words

2. You must reference information from a scientific news source

3. Must contain scientifically accurate information