

Model of Gene Expression

Explain how a gene produces a protein. Use the following rubric as a guide for what details must be included in your explanation:

Transcription	Translation
<ul style="list-style-type: none"> <input type="checkbox"/> Location within the cell <input type="checkbox"/> Starting molecule <input type="checkbox"/> Important enzymes, organelles, and/or structures, and <input type="checkbox"/> Brief descriptions of their roles <input type="checkbox"/> Explanation of “rules” that control construction of the product <input type="checkbox"/> Product molecule, and <input type="checkbox"/> A description of the role or function of the product 	<ul style="list-style-type: none"> <input type="checkbox"/> Location within the cell <input type="checkbox"/> Starting molecule <input type="checkbox"/> Important enzymes, organelles, and/or structures, and <input type="checkbox"/> Brief descriptions of their roles <input type="checkbox"/> Explanation of “rules” that control construction of the product <input type="checkbox"/> Product molecule, and <input type="checkbox"/> A description of the role or function of the product

The format of your explanation can be an essay, a labeled diagram, or a combination of both. This assignment will count as a project grade, and it will be evaluated as follows:

Draft Self-Assessment – Use the checklist above to check off details or make notes for ones you missed.

<p>What did you do well in this draft?</p> <ul style="list-style-type: none"> • Correct details, clear explanations, and/or high-quality work 	<p>What do you need to improve in the next draft?</p> <ul style="list-style-type: none"> • Missing or incorrect details, unclear explanations, and/or low-quality work
<p>What can your teachers do to help you improve on the next draft?</p>	

