

6 Gene regulation, mutations, and biotechnology – Part 2 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 they switch on different genes (differential gene expression), so they make different proteins and take different shapes and jobs, even with the same DNA.

2.2 a change in the DNA sequence.

2.3 no – a mutation may be harmful, neutral, or beneficial; beneficial ones provide the variation that natural selection uses.

2.4 to make many copies of a piece of DNA.

2.5 their size (length).