

A2 DNA Technology study guide 2023 with complete solution

Starting with mRNA, describe how the process of translation leads to the production of a polypeptide.

mRNA attaches to ribosome;

codon on mRNA;

binds to an anti-codon on tRNA;

each tRNA brings a specific amino acid;

sequence of codons/bases on mRNA determines order of amino acids;

formation of peptide bonds/amino acids joined by condensation

reactions;

What is meant by a gene?

a length of DNA;

that codes for a single protein / polypeptide;

The polymerase chain reaction (PCR) can be used to obtain many copies of a particular gene.

(b) Explain how the strands of DNA are separated during the PCR.

by heating;

to break the H-bonds (between complementary bases);

In a particular PCR, two different primers are added to the DNA.

(i) Why are primers required?

to allow the DNA polymerase to attach / start addition of

nucleotides / mark start and end of sequence to be

copied /prevents strands re-joining;

Suggest why two different primers are required.

because the sequences at the ends of the target sequence

are different / one is at the beginning and one at the end;

Describe how a gene can be isolated from human DNA.

use restriction enzyme/endonuclease/named, e.g. Bam/Eco;

to cut DNA in specific place/base sequence

Describe how an isolated gene can be replicated by the polymerase chain reaction (PCR).

heat DNA to 90 - 95 °C;

strands separate;

add primers;

and nucleotides;

cool so that primers bind to DNA;

(DNA) polymerase forms new strands/joins nucleotides;

Describe how a harmless virus, genetically engineered to contain a CFTR gene, can

be used to insert the gene into a cystic fibrosis sufferer.

virus is inhaled/sprayed into the lungs;

gets into cells, inserting the healthy gene;

Explain why the enzyme is called reverse transcriptase.

makes DNA from RNA

Section Dna Technology Study Guide

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