

Translating DNA Exercise

DNA sequence

ATGTTCGTCAATCAGCACCTTTGTGGTTCTCAGGTGGTTGAAG
CTCTGTACCTTGTTTGCGGTGAACGTGGTTTCTTCTACACTCC
TAAGACTTGA

- 1) Put the letters (bases) in groups of three
- 2) Using the genetic code work out the amino acids that this piece of DNA codes for
- 3) Write down the amino acid sequence
- 4) The answer is on the back if you get stuck

This piece of DNA actually codes for part of the human insulin gene

The amino acid sequence

Met, Phe, Val, Asn, Gln, His, Leu, Cys, Gly, Ser, Gln, Val, Val, Glu, Ala, Leu, Tyr, Leu, Val, Cys, Gly, Glu, Arg, Gly, Phe, Phe Tyr, Thr, Pro, Lys, Thr, Stop.