The base sequences from two strands of DNA are shown in the diagram below. The two sequences are from the same section of a chromosome: the first is the normal sequence and the second is a mutant form.

Normal DNA AATCAGGTTA

Mutant DNA ATACCAGTTA

(a) Describe and name two point mutations in the mutant DNA

(b) After transcription, a strand of mRNA is produced. Write the mRNA sequence which would be produced from the mutant DNA

(c) (i) Describe how the polypeptide chain produced from this mRNA sequence may differ from the normal polypeptide

(ii) Suggest how this might affect the activity of the polypeptide