

The molecule:

5' -ATGCCGATCGTT-3' 5' -AUGCCGAUCGUU-3' met-pro-ile-val
 3' -TACGGCTAGCAA-5'

DNA $\xrightarrow{\text{transcription}}$ mRNA $\xrightarrow{\text{translation}}$ protein

What it's made of:

nucleotides
(G, A, T, C)

nucleotides
(G, A, U, C)

amino acids
(20 different ones)

Sample piece of **HUMAN** hemoglobin:

Met - Val - Leu - Ser - Pro - Ala - Asp - Lys - Thr - Asn

Sample piece of **CHIMPANZEE** hemoglobin:

Met - Val - Leu - Ser - Pro - Ala - Asp - Lys - Thr - Asn

Sample piece of **BLUEFIN TUNA** hemoglobin:

Met - Val - Glu - Trp - Thr - Gln - Gln - Glu - Arg - Ser