The linear amino acid sequence defines the primary structure of a protein. Regions of the linear polypeptide chain fold into stable α-helix and β-sheet structures to form the protein secondary structure.

**α-Helix and β-Sheet Construction Kit Contents**

- 11 α-Helix backbone pieces
- 10 β-Sheet backbone pieces (each has a green A on the α-carbon)
- 11 Hydrogen bonds
- 30 Sidechains
  - 1 each of: arginine, asparagine, aspartic acid, cysteine, glutamine, histidine, isoleucine, lysine, methionine, phenylalanine, threonine, tyrosine, tryptophan
  - 2 each of: alanine, glycine
  - 3 each of: leucine, serine, valine
  - 4 of: glutamic acid

**Please note that there is not a model for proline.**