

Building a Protein: The Protein Sequences

(Teacher Resource for Students)

Cut these out and hand them out to student groups. You will likely need two copies of this handout as you will duplicate some or all proteins among your student groups. (See BS 03 Optional – Building A Protein TEACHER GUIDE for details.)

Rhodopsin

Met – Asn – Gly – Thr – Glu – Gly – Pro – Asn – Phe - Tyr

Pepsinogen A (becomes Pepsin when it reacts with stomach acid)

Met – Lys – Trp – Leu – Leu – Leu – Leu – Gly – Leu - Val

Insulin

Met – Ala – Leu – Trp – Met – Arg – Leu – Leu – Pro - Leu

Keratin

Met – Thr – Cys – Gly – Ser – Gly – Phe – Gly – Gly - Arg

Hemoglobin (Alpha 1 Subunit)

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