

Mammalian Protein Expression and Purification

Upon receipt of your order, Open Biosystems will take the indicated MGC or IGC cDNA clone from inventory or use the customer-provided clone and subclone the desired fragment into a suitable mammalian expression vector and sequence at both ends to confirm frame. The resulting vector will be transfected and induced to express the desired protein in CHO and 293 cells. Highest yielding clones will then be cultured using our optimized protocols. Target purity is >90%, and protein will be purified from media (or extracted from pellet) using protein A or nickel resin.

Project Breakdown and Milestone Pricing

| Service | Description | Time |
|---|---|--------------|
| Cloning into suitable mammalian expression vector | <p>Amplification of the gene of interest out of a customer-supplied or Open Bio vector and subcloning it into a suitable mammalian expression vector.</p> <p>Verification of the authenticity of the subcloned gene by restriction enzyme digest and sequencing.</p> <p>Prep of the recombinant vector DNA.</p> | 2-4 weeks |
| Generation and identification of mammalian cells expressing target proteins | <p>Transformation of recombinant constructs into high-efficiency CHO cell line.</p> <p>Mini-induction to over-express the target protein.</p> <p>Test for the expression of the recombinant protein by western blot with anti-tag antibody (customer must provide appropriate antibodies) if desired.</p> | 2-4 weeks |
| Large-Scale Culture | Two liters of supernatant will be induced and harvested for protein purification. | 2 weeks |
| Purification | Protein purification using protein A beads or nickel resin at either native or denatured conditions. | 2 weeks |
| Price | | Quote |

Total production time is approximately 8-16 weeks. More protein may be produced above the standard amount for an additional charge. To proceed with ordering, the following information will be needed:

- 1) Customer's shipping and billing information
- 2) Method of payment (purchase order or credit card)

Plasmid or glycerol stock will be provided only upon request at project completion.