

Let Creative BioMart Accelerate Your Protein Production Project!

Creative BioMart provides a comprehensive package of custom protein production services for both academic and industrial clients to meet your requirements for protein production at research scale as well as industrial manufacture scale.

We Guarantee

- Competitive pricing in the market
- Up-to-date technologies
- Rapid turnaround time
- High-efficient custom service

Creative BioMart's professional team has decades of experience and professional expertise in recombinant protein expression and purification. In general, our custom recombinant protein services include a comprehensive portfolio of expression systems. The most commonly used expression systems include:

- **Bacterial Expression Systems** (Escherichia coli / Bacillus subtilis): Most widely used expression systems for their rapid growth, high yield, ease of manipulation and scalable production.
- **Yeast Expression Systems** (Pichia pastoris / Saccharomyces cerevisiae): Especially for
- **Cell-free Expression** (E.coli / Wheat Germ): A more straightforward, rapid and efficient way of protein production; an alternative choice for proteins that cannot be produced by conventional systems or high-throughput screening of mutagenesis. The whole machinery sets up an appropriate environment to manufacture toxic

secretory/glycosylated proteins that expressed as insoluble or inactive inclusion bodies using Bacterial Expression Systems.

proteins, membrane proteins and proteins that would be easily degraded by intracellular proteases.

- **Insect cell / Baculovirus Expression Systems** (SF9, SF21, S2, T.ni / HI-5): Baculovirus Expression Vector System (BEVS) is widely recognized as a powerful and versatile system for the production of high-quality and hard-to-express proteins. They have several advantages over E. coli protein expression such as improved solubility, feasibility of post-translational modifications, and higher yields for secretory proteins.

- **Mammalian Expression Systems** (CHO / HEK293 cell lines): The best choices for production of eukaryotic proteins, especially when correct folding and post-translational modification (glycosylation, phosphorylation, etc.) is required. They have a wide range of applications in the biopharmaceutical production of cytokines, monoclonal antibodies, growth factors, etc.

- **Animal-free Expression** (Rice Grain Expression / Tobacco Expression): Compared to traditional microbial or animal cell systems, the animal-free plant expression systems greatly reduce the risk of contamination with animal-origin pathogens in the expression of large quantities of proteins. Plant production possesses superior advantages in storage, distribution and scale-up. The most commonly used delivery systems include tobacco mosaic virus (TMV) and Agrobacterium.

- **Stable Cell Line Construction for Protein Expression**: A reproducible and cost-effective method for large-amount recombinant protein production. Normally, lentiviral vector is used for efficient gene delivery and to achieve high integration rate. We also offer the generation of Tet-ON inducible stable cell lines for inducible expression of the target gene.

Creative BioMart's one-stop custom protein service covers the following technical procedures:

- Codon Optimization
- Cell Culture and Protein Expression
- Expression Plasmid Construction
- Protein Purification and Strict Quality control.

Feel free to contact us for more details of our custom protein production service. Our service can be tailored according to your requirements. Our experts will provide you an optimal solution for your project and troubleshooting for you throughout the entire process.

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