



# Cell-Free Protein Expression

Template



Cell  
Extract



Protein  
Synthesis

Creative BioMart's cell-free expression service is specifically suitable for small to medium scale expression projects, as well as high-throughput screening studies. Cell-free expression overcomes many difficulties of conventional cellular expression. It works independently and is free of cellular context. The whole machinery sets up a better environment to manufacture nucleoproteins, protein complexes, toxic proteins and proteins that are easily degraded by intracellular proteases. In combination with Creative BioMart's [FoldEZ™ technology](#), even membrane proteins can be expressed in sufficient amounts and fully functional for SPR and interaction experiments.

Cell-free protein expression methods are simple and fast. We use self-developed E.coli and wheat germ cell-free lysates, which provide optimized composition and proportion of enzymes and building blocks required for translation to express proteins of interests with the highest yields and shortest turnaround. We are waiting

Compared with other expression systems, Creative BioMart' cell-free approach results in:

- Rapid expression of a broad range of protein variants
- Fully preserved functionality, full length proteins
- Economic protein labeling (for structural and functional purposes)
- >90% success rate, depending on the type of protein
- Short production time for previously expressed proteins: 1-2 weeks per mg of protein

Besides, if other cell-free system is preferred, we are open for discussion. More information on cell-free protein expression is available on our [Cell-Free \*In Vitro\* Protein Expression](#) service page.

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