

Protein Synthesis Services

High Performance Wheat Germ Cell-Free Expression System

Overview: From the DNA to the Protein

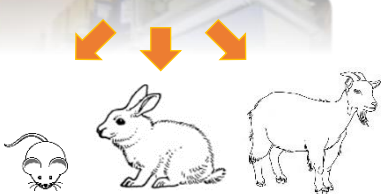
1 Template generation (PCR, Cloning, Gene Synthesis) provided by customer or prepared at CFS

2 Vector entry QC, expression and solubility test, Evaluation Report

3 Protein production by wheat germ cell-free protein synthesis

4 QC by SDS PAGE, Production Report

On Demand Production on Protemist® DTII

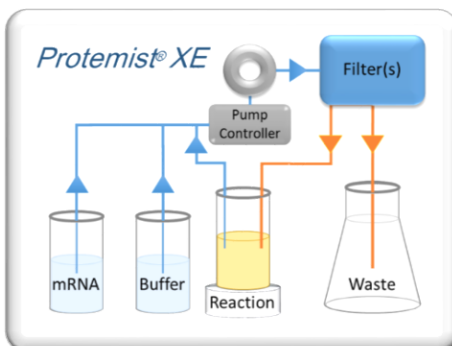


- Services for preparing expression template
- Access to human proteins
- Fast turnaround times (~ 1 week)
- GST- or His-tag purified antigens
- Commonly up to 500 µg purified protein from one reaction
- Protein QC by SDS page

Used for large-scale antigen production (~20,000 antigens as of today)

Proteins produced by CFS are sold on the market by other providers

Customized Protein Production



Refeeding expression reaction for highly efficient protein expression

- High-throughput expression and solubility testing and optimization
- Use of bilayer reaction in 96 well format
- Preparation of biotinylated proteins for binding studies
- Co-expression of proteins and formation of protein complexes
- Preparation of proteoliposomes to study membrane proteins
- Upscaling of protein production up to ~1 g scale per batch
- Protein purification on AKTA™ chromatography system

CFS is an active partner in joint research projects