

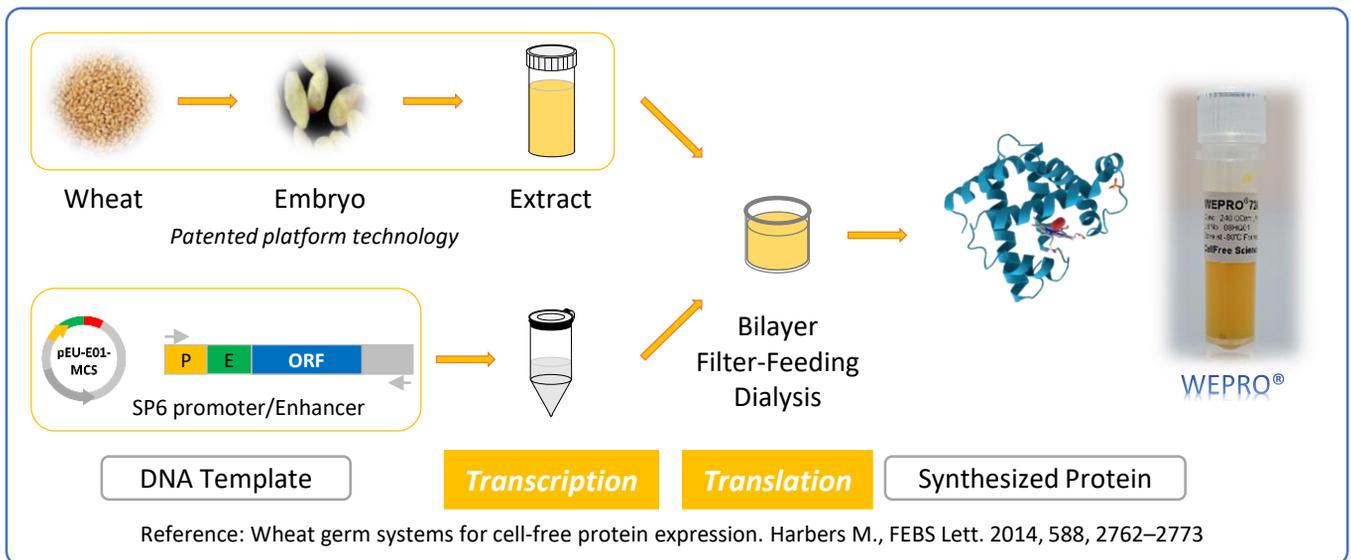
Protein Synthesis Solutions

High Performance Wheat Germ Cell-Free Expression System

Advantages

- Proven technology with high success rate for proteins from a wide range of organisms
- Easy to setup, fast and scalable reaction formats, full automation possible
- Dedicated reagents for expression of His-tagged and GST-tagged proteins
- Dedicated amino acid free reagents for protein labeling e.g. NMR, MS, and NSAA incorporation
- Dedicated reagents for expression of membrane proteins as proteoliposomes
- Key applications in antigen preparation, difficult-to-express proteins, screening assays, protein arrays

Technology



Protein Expression Reagents

Template Preparation	mRNA Expression	Protein Expression
pEU Vectors	SP6 RNA polymerase	WEPRO7240S/G/H
His-tag set	RNase inhibitor	Reaction Buffer
GST-tag set	NTP mix	Proteoliposome Kit
Flag-tag set	Reaction Buffer	[¹³ C, ¹⁵ N]-L-Lys [¹³ C, ¹⁵ N]-L-Arg Labeling Kit
Split-PCR Primers		Protein Expression Kits

Protomist[®] Protein Expression Instruments



Protomist[®] DTII/DTII-S

Medium Scale Synthesis

Transcription, Translation, and Purification (6 ml scale)
6 proteins/run up to ~500 µg of purified protein per well
24 proteins/run up to ~200 µg crude protein per well
(Data for GFP expression, 28 or 34 hr run time)



Protomist[®] XE

Large Scale Production

Translation only
~10 mg/ml crude protein 48 hr run
~10 to 100 ml reaction scale
(Data for GFP expression)