

Premium PLUS Expression Kits

High-Performance Wheat Germ Cell-Free Protein Synthesis

Establish Cell-Free Protein Expression

All reagents included to establish cell-free protein expression at your laboratory.

Premixed reagents for easy reaction setup!

Cloning vector, primer for split-PCR, positive control included!

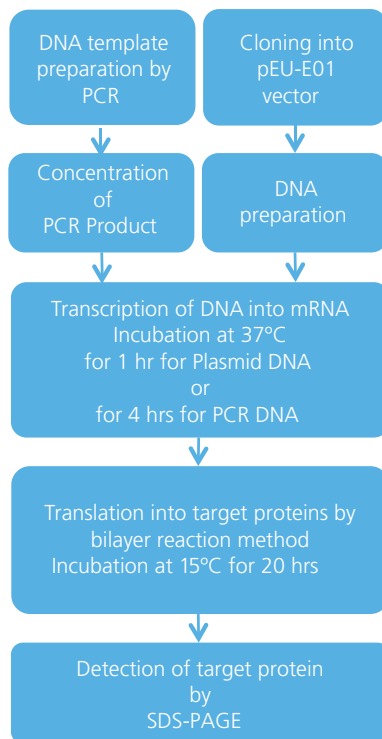


The Premium PLUS Expression Kit provides premixed reagents for eight protein-expression reactions on a 226- μ L scale.

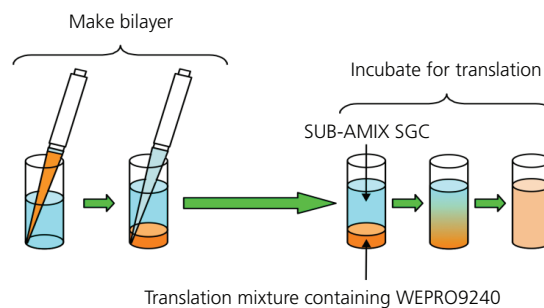
Premium PLUS Expression Kits also contain EU-E01-MCS vector, primers for DNA preparation by PCR, pEU-E01-DHFR positive control and reaction cups for bilayer setup. So simply: follow each step described in the protocol booklet that comes with the kit. Insert your gene of interest into the pEU-E01 vector or amplify by PCR and express the protein in our wheat germ cell-free system. Confirm the protein expression by SDS-PAGE.

One 226 μ L reaction with the positive control yields about 30 μ g of DHFR protein.

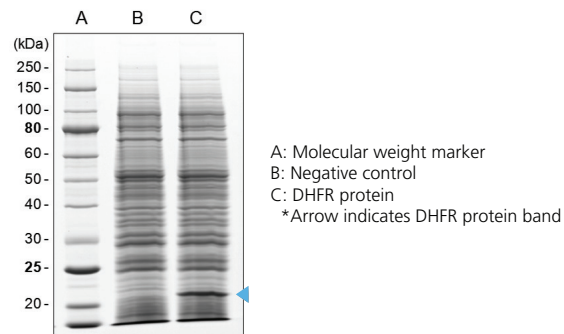
Workflow



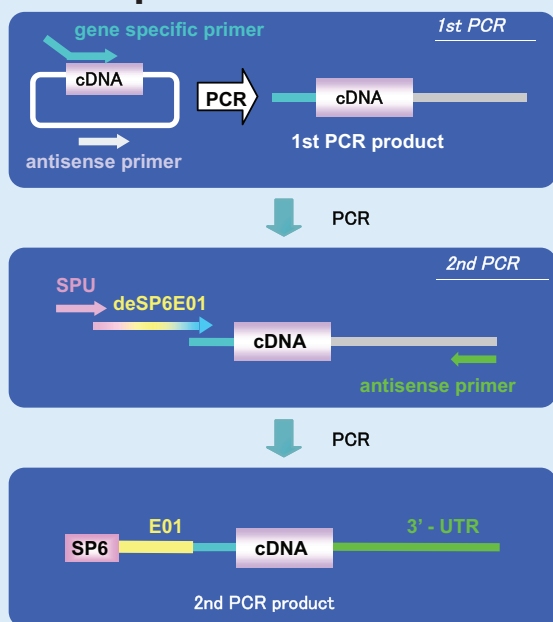
Bilayer Reaction



Example of DHFR protein expressed by old Premium Expression Kit and new Premium PLUS Expression Kit

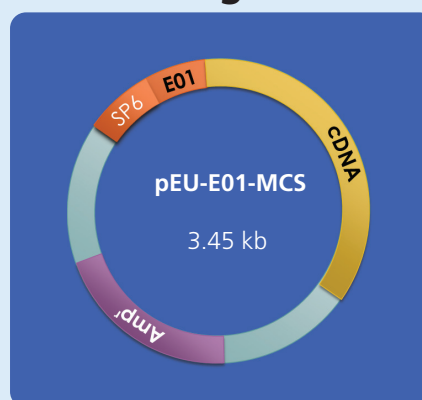


Split-PCR Primers



Split-primer PCR directly prepares DNA template.

Cloning Vector



- **SP6 promoter**
(for *in vitro* transcription)
- **E01 enhancer**
(optimized for wheat germ system)

Ordering Information

Catalog No.	Description	Storage	Amount
CFS-EDX-PLUS	Premium PLUS Expression Kit	-80°C	1 kit

Kit contains reagents for 8 x 226 µL reactions.

Kit contains:

- pEU-E01-MCS vector
- pEU-E01-DHFR vector (positive control)
- Primers for DNA preparation by PCR (SPU and deSP6E01)
- Transcription premix LM
- WEPRO9240
- SUB-AMIX SGC (translation buffer)
- Protocol booklet

Shelf life: 1 year

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Reference

Takemori, N.; Takemori, A.; Matsuoka, K.; Morishita, R.; Matsushita, N.; Aoshima, M.; Takeda, H.; Sawasaki, T.; Endo, Y.; Higashiyama, S. **2014**. High-throughput synthesis of stable isotope-labeled transmembrane proteins for targeted transmembrane proteomics using a wheat germ cell-free protein synthesis system. *Mol Biosyst*. DOI: 10.1039/C4MB00556B



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CFS protein-expression reagents and kits are distributed in North America by Cambridge Isotope Laboratories, Inc. (CIL) and in Europe by Euriso-Top, SAS.

To contact CIL, please send an email to your local sales representative or cilsales@isotope.com.



To contact Euriso-Top, please send an email to sales@eurisotop.com.