

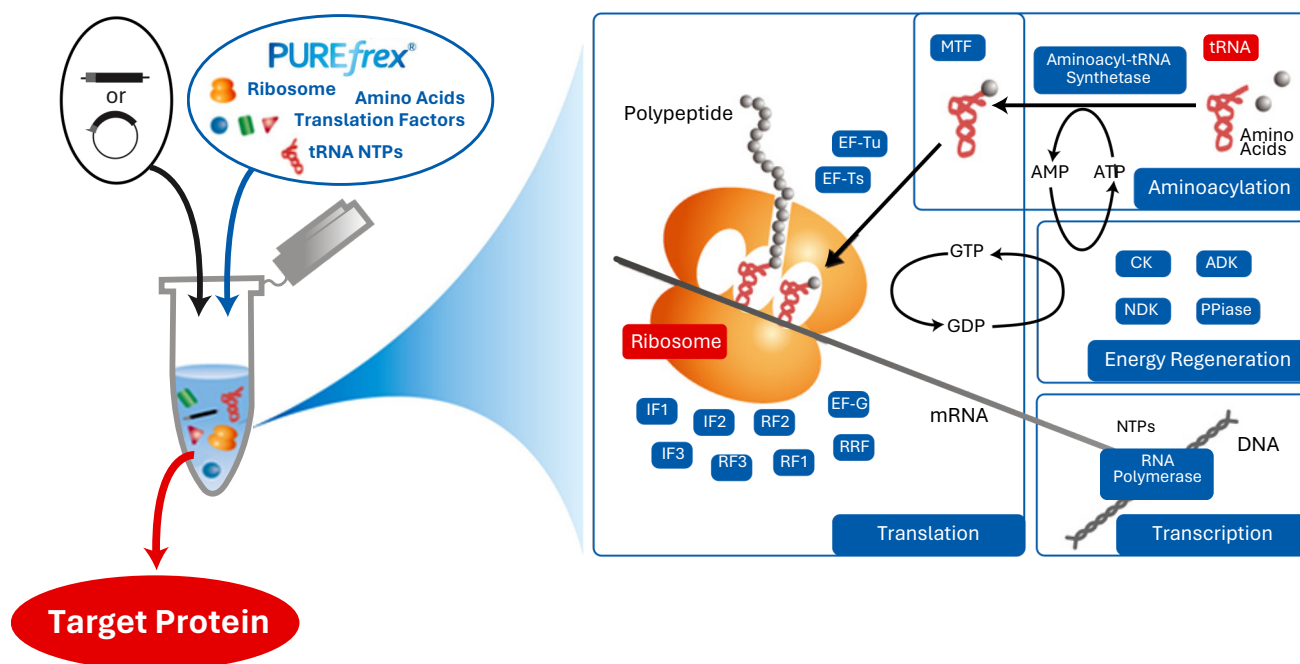
## CELL-FREE PROTEIN EXPRESSION

### Advanced Cell-Free Protein Synthesis System

PUREfrefx® represents a breakthrough in cell-free protein synthesis technology, offering a precisely engineered *in vitro* coupled transcription/translation system. Unlike traditional S30 translation extracts, PUREfrefx utilizes a completely reconstituted system derived from *E. coli* translation machinery. By adding DNA or mRNA that encodes the target protein to the reaction solution, proteins can be synthesized easily and quickly without using living cells.

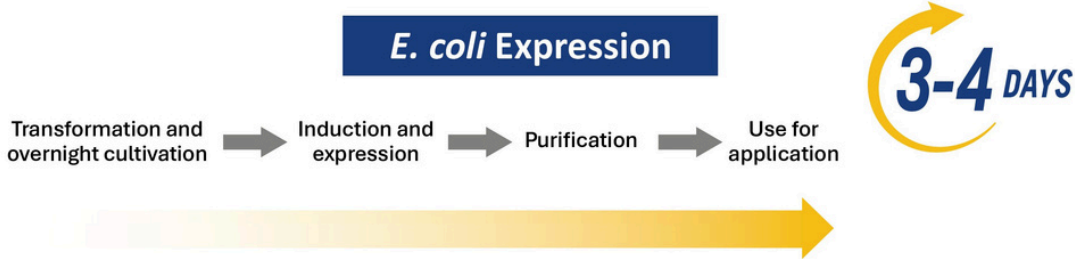
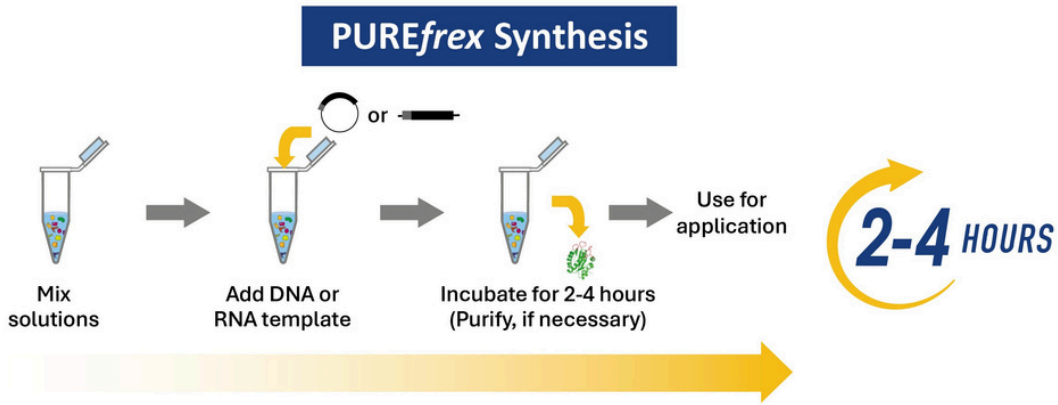
Advantages of the PUREfrefx protein synthesis system:

- Protein expression in hours instead of days
- Highly purified components eliminate contaminating nucleases & proteases
- DNA and RNA template integrity preserved
- Optimal protein functionality maintained
- Maximum yield of full-length target proteins
- Express proteins with any tag, including polyhistadine (HIS)
- PUREfrefx components can be customized to meet the expression demands of your unique protein
- PUREfrefx volumes are easily scalable for protein production from µL to L quantities



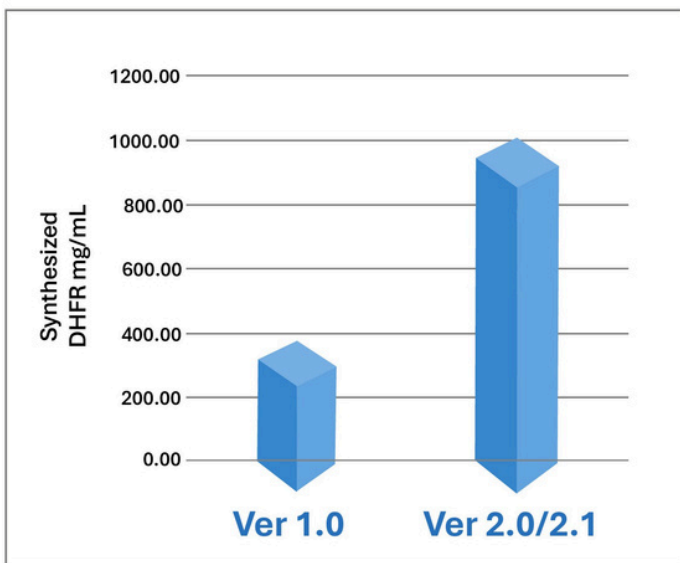
## Express Your Proteins in Hours, Not Days

PUREflex® cell-free technology enables rapid, scalable protein production. Highly compatible with machine learning workflows.

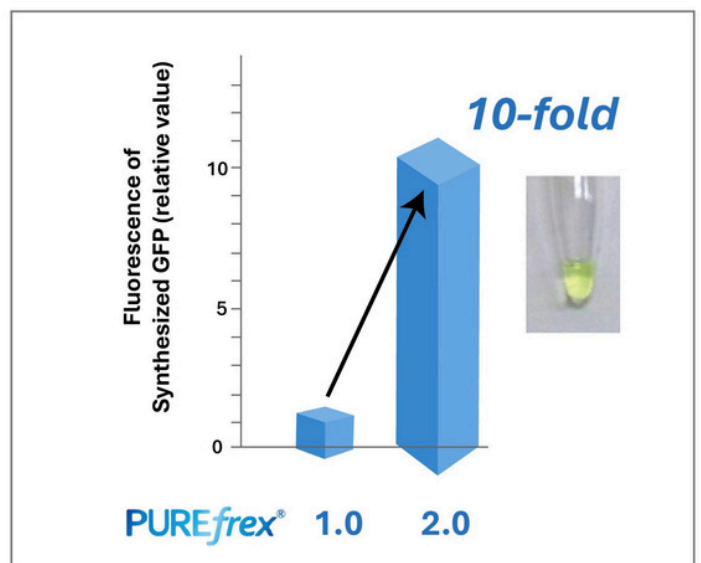


## Maximize Yields While Maintaining Protein Functionality

Maximum Expression of Proteins



No Loss of Protein Functionality



## PUREfreflex® Kits for Cell-free Protein Synthesis

PRODUCT	DESCRIPTION	CATALOG NUMBER	SIZES
<b>PUREfreflex 2.0</b>	Improved version of PUREfreflex 1.0 with increased protein yields and reduced contaminates.	CO-GFK-PF201-01-EX CO-GFK-PF201-025-EX CO-GFK-PF201-2ML-EX CO-GFK-PF201-10ML-EX CO-GFK-PF201-50ML-EX	100 uL 250 uL 2 mL 5 x 2 mL 25 x 2 mL
<b>PUREfreflex 2.1</b>	Ideal for expressing proteins with disulfide bonds and control of redox environment.	CO-GFK-PF213-025-EX CO-GFK-PF213-2ML-EX CO-GFK-PF213-10ML-EX CO-GFK-PF213-50ML-EX	250 uL 2 mL 5 x 2 mL 25 x 2 mL
<b>PUREfreflex 1.0</b>	Use when detailed component composition is required.	CO-GFK-PF001-025-EX CO-GFK-PF001-2ML-EX CO-GFK-PF001-10ML-EX CO-GFK-PF001-50ML-EX	250 uL 2 mL 5 x 2 mL 25 x 2 mL

## PUREfreflex® Reaction Supplements

Do you have a challenging protein to express? There is a variety of supplements available to optimize expression of your protein with the PUREfreflex system.



PRODUCT	DESCRIPTION	CATALOG NUMBER	SIZES
<b>Chaperone supplements to assist proper protein folding and solubility</b>			
<b>GroE Mix</b>	An optimized ratio of highly purified E. coli derived GroEL (Hsp60) and GroES	CO-GFK-PF004-05-EX CO-GFK-PF004-10ML-EX CO-GFK-PF004-50ML-EX	500 uL 5 x 2 mL 25 x 2 mL
<b>DnaK Mix</b>	An optimized ratio of highly purified E. coli derived DnaK, DnaJ and GrpE	CO-GFK-PF003-05-EX CO-GFK-PF003-10ML-EX CO-GFK-PF003-50ML-EX	500 uL 5 x 2 mL 25 x 2 mL
<b>Enzyme supplements to promote disulfide bond synthesis for functional proteins</b>			
<b>DsbC Set</b>	Contains E. coli disulfide bond isomerase (DsbC) and GSSG (oxidized glutathione) to create an oxidizing environment	CO-GFK-PF005-05-EX CO-GFK-PF005-10ML-EX CO-GFK-PF005-50ML-EX	500 uL 5 x 2 mL 25 x 2 mL
<b>PDI Set</b>	Contains oxidized glutathione (GSSG), human PDI (protein disulfide isomerase) and human Ero1 $\alpha$ (ER oxidoreductin-1 to reoxidize PDI)	CO-GFK-PF006-05-EX CO-GFK-PF006-10ML-EX CO-GFK-PF006-50ML-EX	500 uL 5 x 2 mL 25 x 2 mL
<b>Transcription factor supplement to prevent ribosome stalling through difficult sequences</b>			
<b>EF-P</b>	Contains recombinant Elongation Factor P (EF-P) (modified at LYS34) and dilution buffer.	CO-GFK-PFS052-05-EX CO-GFK-PFS052-10ML-EX CO-GFK-PFS052-50ML-EX	500 uL 5 x 2 mL 25 x 2 mL



# Get the chance to test

## PUREfrex<sup>®</sup> 2.0

# SPECIAL PRICE

CO-GFK-PF201-01-EX

100ul size

# 99€HT\*

and no additional fees (shipment - dry ice)

\* valid until December 31st, 2026

Please mention Promo Code CBUQ096986 on your order



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