

Having trouble getting **proteins** with **cell-free** expression methods?

ExiProgen™ Protein Expression Optimization Kit

This product can be used to synthesize template DNA with sequences that can synthesize various tags for screening and maximizing the target protein expression. This allow to express proteins with template DNA samples that was once difficult to express using *ExiProgen™* protein synthesis system. Furthermore, each of the tag sequences contains TEV cleavage sites, allowing removal of tags after the protein synthesis if needed.

- ✓ Synthesize maximum of 30 types of templates at once
- ✓ Skip the tedious cloning step by synthesizing the template DNA with the PCR
- ✓ Provide PCR premix with high fidelity to minimize the PCR error rate

Control DNA

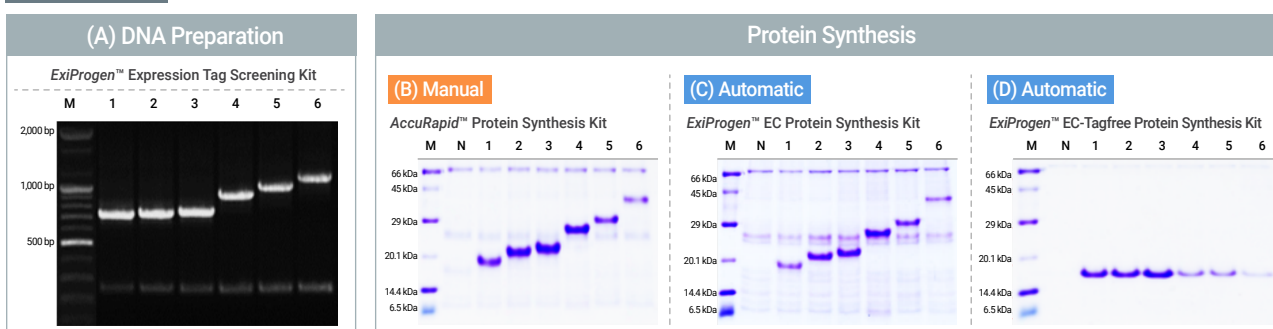


Figure 1. Template DNA construction and protein synthesis data for the control DNA.

Each linear template DNA was generated by using *ExiProgen™* Protein Expression Optimization Kit. The linear template DNA was used as templates for protein synthesis with our various protein synthesis kits. Length of the control DNA is 462 bp and molecular weight of the control protein is 18 kDa.

Data (A): 2nd PCR products using the 1% agarose gel image

Data (B-D): Each protein was synthesized using 1 µg of DNA and 22.5 µl of the purified protein was loaded on 12% SDS-PAGE gel.

(Lane N: No tagged samples, Lane 1-6: tag 1-6 inserted samples.)

Synthesis of Difficult-to-express Proteins

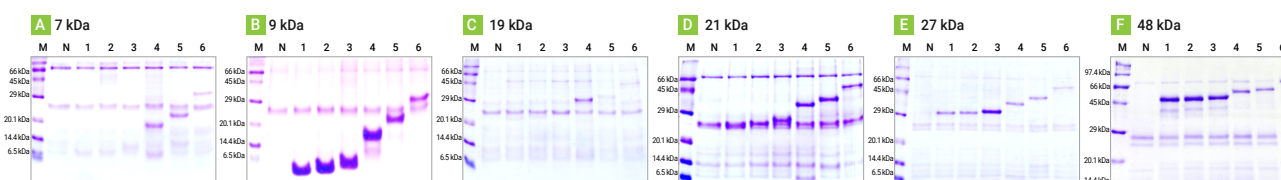


Figure 2. Protein synthesis data of various sizes of difficult-to-express proteins.

Difficult-to-express proteins were synthesized using the template DNAs generated by the tag screening kit and *ExiProgen™* EC Protein Synthesis Kit.

Data (A-F): Synthesized proteins analyzed by SDS-PAGE

(Lane N: No tagged samples, Lane 1-6: tag 1-6 inserted samples.)

Cat. No	Product Description	Price
K-7410	<i>ExiProgen™</i> Protein Expression Optimization Kit	\$590.00
Related Product		
K-7280	<i>AccuRapid™</i> Protein Synthesis Kit	\$400.00
K-7300	<i>ExiProgen™</i> EC protein Synthesis Kit	\$650.00
K-7320	<i>ExiProgen™</i> EC-Tagfree Protein Synthesis Kit	\$990.00
S-2500	Standard Protein Synthesis Service	Inquire