



myTXTL®



Cell-Free Protein Expression Kits

OVERVIEW

myTXTL® is a fast and easy-to-use solution for *in vitro* protein expression. Gene transcription (TX) and translation (TL) is executed in a single reaction tube by a highly efficient cell-free system utilizing the endogenous TXTL machinery from *E. coli*. Meanwhile, compatibility with the well-established T7 expression system is maintained, providing you with maximum flexibility.

FEATURES & BENEFITS

- Easy** – Simply mix template DNA and ready-to-use myTXTL® Master Mix
- Simple** – Only standard laboratory equipment required
- Fast** – Save time by avoiding transformation, clone selection and cell lysis
- Flexible** – Use plasmid, linear DNA or RNA templates
- Versatile** – Compatible with T7 expression system
- High Yield** – Perform more analyses on a single TXTL reaction

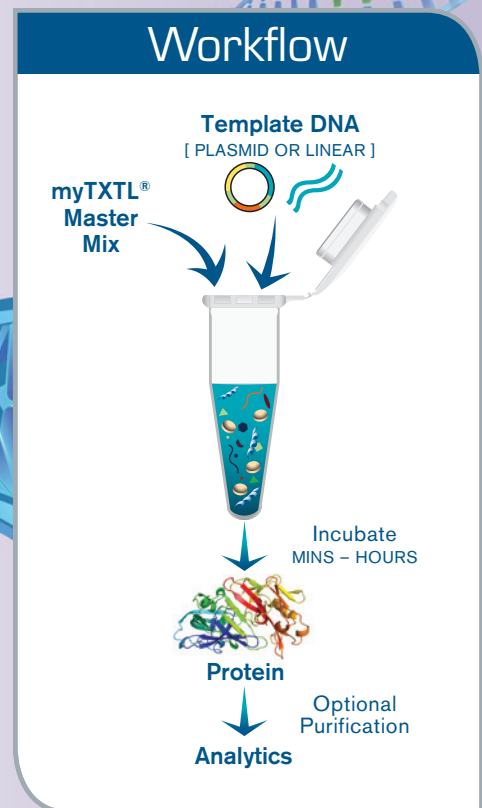
APPLICATIONS

Protein Expression

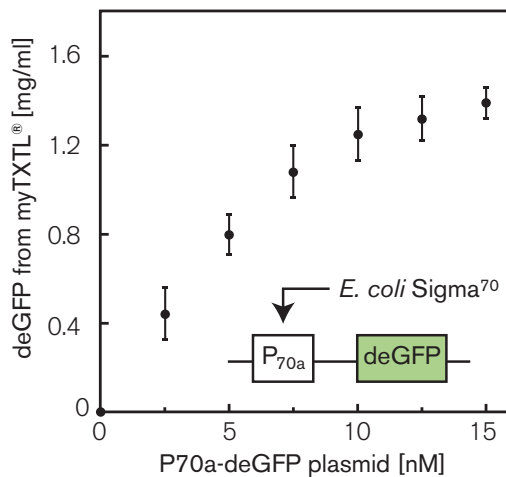
- High-Throughput Screening
- Difficult-to-Express Proteins
- *In vitro* Protein Evolution
- Protein Functionalization
- Molecular Interaction Analysis
- Membrane Proteins

Synthetic Biology

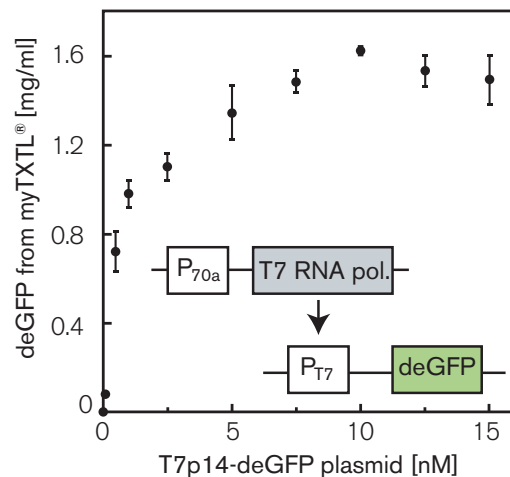
- Gene Circuits
- Rapid Prototyping
- Phage Production



PERFORMANCE DATA



Effect of plasmid concentration on *in vitro* protein production. *deGFP* expression is regulated by the interaction of the endogenous *E. coli* core RNA polymerase and the primary sigma factor σ^{70} with the σ^{70} -specific promoter P_{70a} .



Example of a two-plasmid gene network. Gene expression under the control of the bacteriophage T7 promoter/operator system facilitated by initial expression of T7 RNA polymerase.

ENHANCE PROTEIN PRODUCTION WITH LINEAR DNA

Boost protein yield from linear templates by simply supplementing myTXTL® Sigma 70 Master Mix with recombinant nuclease inhibitor GamS.

myTXTL® TOOLBOX 2.0 PLASMID COLLECTION

We offer over 100 plasmids with various promoters and open reading frames (ORFs) to optimize protein production. ORFs include a wide selection of transcription factors, TXTL modulators, and fluorescent reporter proteins to build complex gene circuits. Contact us for a complete list of available plasmids.

GENERATE SYNTHETIC DNA TEMPLATES

Utilize our myDNA® gene synthesis service to generate your own unique DNA templates up to 10 Kb tailored to your needs. Choose between plasmid-borne templates and linear DNA fragments to match your experimental design requirements and expedite your expression analysis.

PRODUCT TABLE

Cat. No.	Description	Reactions
507024	myTXTL® Sigma 70 Master Mix Kit	24
507096	myTXTL® Sigma 70 Master Mix Kit	96
501024	GamS Nuclease Inhibitor Protein	24
501096	GamS Nuclease Inhibitor Protein	96



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Cell-free Protein Expression Kits
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