Single Step (KRX) Competent Cells

The Single Step (KRX) Competent Cells are designed for efficient transformation and tightly controlled protein expression. These cells consolidate the best attributes of these two steps into one strain to evaluate protein expression in *E. coli.*

Transformation efficiencies are greater than 10^8 cfu/µg, similar to other highly competent cells. The single step cells are available in single transformation size (50µl). KRX also can be used for blue/white screening.

Single Step (KRX) is an *E. coli* K strain that contains a chromosomal copy of the T7 RNA polymerase driven by a rhamnose promoter (rhaBAD) to provide dr...

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Prices valid for US customers only

PRODUCT	SIZE	CONC.	CATALOG #	*LIST PRICE	ORDER QTY	
Single Step (KRX) Competent Cells Protocol MSDS Components	20 × 50µl	-	L3002	$ 265.00		Add to cart
L-Rhamnose Monohydrate MSDS	10g	-	L5701	$ 42.00		Add to cart
L-Rhamnose Monohydrate MSDS	50g	-	L5702	$ 150.00		Add to cart

You Also May Be Interested In

S30 T7 High-Yield Protein Expression System

Pro 5-alpha, JM109 and HB101 Competent Cells

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BL21(DE3)pLysS Competent Cells

Storage Conditions

Always store competent cells at –70°C. Thaw on ice when ready for use. Do not refreeze thawed, unused aliquots.

For product intended use please see Patents & Disclaimers tab.

FIGURES

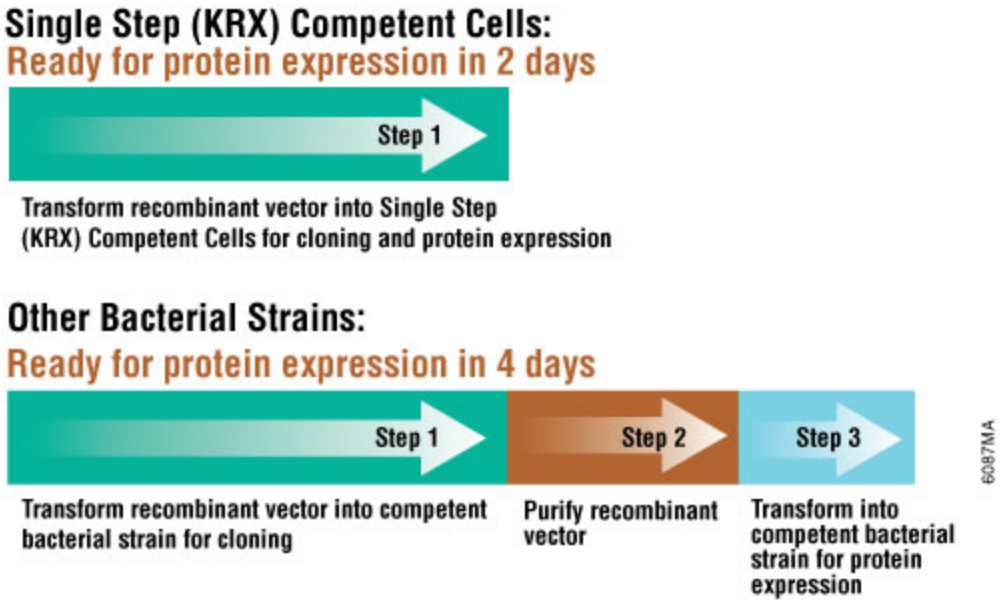

Figure 1. In only two days, you can transform your vector into the Single Step (KRX) Competent Cells and express protein. This one strain consolidates the best attributes of both good cloning and good expression strains avoiding the need to transfer to another strain specifically for expression.

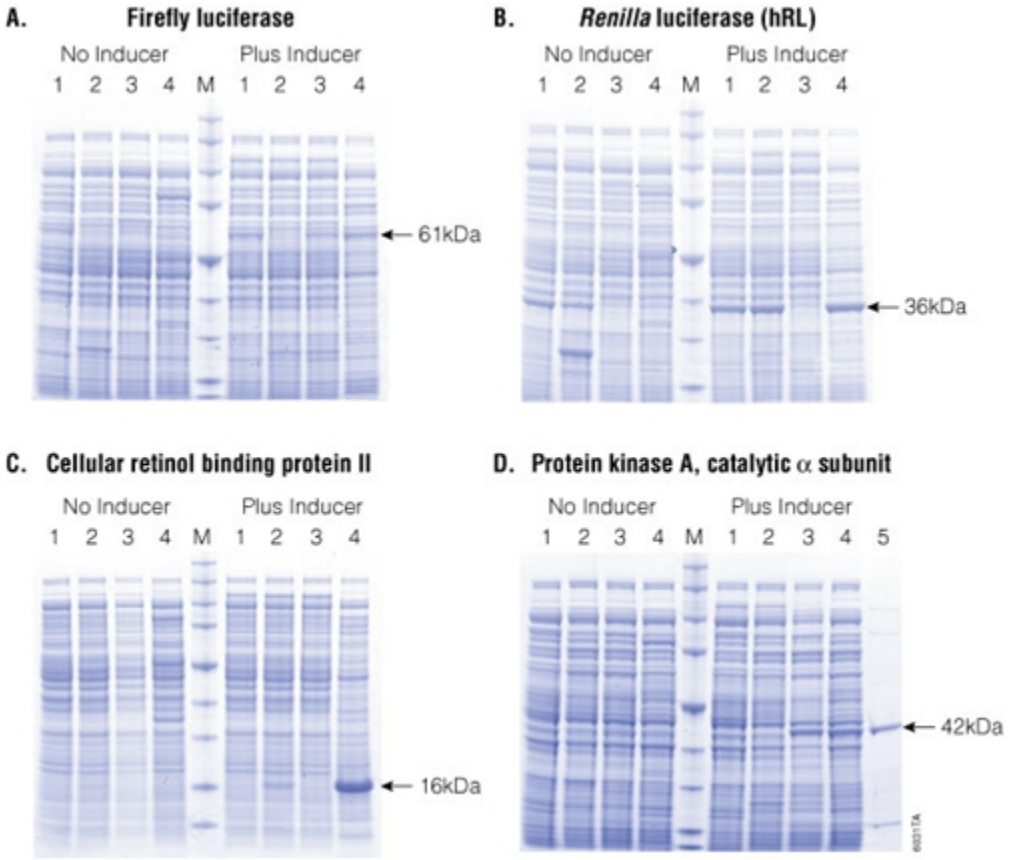

Figure 2. Comparison of protein overexpression. Lane 1, BL21(DE3); lane 2, BL21(DE3)pLysS; lane 3, Rosetta 2(DE3) pLysS; lane 4, Single Step (KRX) Competent Cells.

Protocols

Single Step (KRX) Competent Cells Technical Bulletin

Articles

HaloTag® Technology for Microarray-based Proteomics Applications

^{15}N Labeling of Proteins

How are competent bacterial cells transformed with a plasmid?

The Single Step (KRX) Competent Cells

Se-Met Protein Labeling Using the E.coli Strain KRX

Related Citations

Legionella pneumophila LidA affects nucleotide binding and activity of the host GTPase Rab1. 2012 *J. Bacteriol.* **194**, 1389-1400.

HaloTag7: A genetically engineered tag that enhances bacterial expression of soluble proteins and improves protein purification 2009 *Protein Expr. Purif.* **68(1)**, 110-120.

Videos

Single Step KRX Competent Cells

Use Restrictions

L3002, L5701, L5702 For Research Use Only. Not for Use in Diagnostic Procedures.

Patents - Disclaimers

Patent Pending.

Usage restrictions apply to Bacterial Strains JM109(DE3), BL21(DE3)pLysS and KRX and to any derivatives thereof.

Usage Restrictions for the T7 Expression System
The T7 expression system is based on technology developed at Brookhaven National Laboratory under contract with the U.S. Department of Energy and is the subject of patents assigned to Brookhaven Science Associates, LLC (BSA). This technology, including bacteria, phage and plasmids that carry the gene for T7 RNA polymerase, is to be used for academic or nonprofit laboratory or licensed commercial research purposes only. By accepting or using the T7 expression technology you agree to be bound by the following conditions set forth by BSA. The initial purchaser may refuse to accept the conditions of this notice by returning this product and the enclosed materials to Promega unused.

Academic and NonProfit Laboratories
No materials that contain the cloned gene for T7 RNA polymerase may be distributed further to third parties outside of your laboratory unless the recipient receives a copy of this assurance notice and agrees to be bound by its terms. This limitation applies to Bacterial Strains JM109(DE3), BL21(DE3)pLysS and KRX and to any derivatives thereof.

Commercial Laboratories
A license is required for any commercial use of the T7 expression system, including use of the T7 system for research purposes or for production purposes by any commercial entity. Information about commercial licenses may be obtained from the Licensing Office, Brookhaven National Laboratory, Upton, NY 11973, Telephone: 631-344-7134, FAX: 631-344-3729.