

ORDERING INFORMATION

CAT. No.	SIZE	PACKAGE CONTENT
BR1500201	100 µg	20 µl LYO-ready T6 UvsX DNA Recombinase, 5 mg/ml 1.5 ml 10X Reaction Buffer I
BR1500202	500 µg	100 µl LYO-ready T6 UvsX DNA Recombinase, 5 mg/ml 1.5 ml 10X Reaction Buffer I

DESCRIPTION

biotechrabbit™ LYO-ready T6 UvsX DNA Recombinase is an enzyme originating from the T6 bacteriophage. This 44 KDa enzyme is the RecA/Rad51 ortholog of bacteriophage T6 and thus plays a crucial role in facilitating DNA recombination, a process where genetic material is exchanged or integrated between DNA molecules. Highly involved in homologous recombination, UvsX binds to single-stranded DNA regions, aiding in the accurate pairing and exchange of genetic material. This enzyme can be applied in genetic engineering, gene editing, and biotechnology, serving as a tool for manipulating DNA sequences and studying the recombination machinery. The unique properties of this enzyme make it the best choice for employment in Recombinase Polymerase Amplification (RPA), an isothermal DNA amplification method with broad applications such as diagnostics and clonal amplification in Next Generation Sequencing (NGS). This protein is provided in a storage buffer containing 5% glycerol, making it suitable for further use in lyophilization.

APPLICATIONS

- Recombinase Polymerase Amplification (RPA)
- Clonal amplification in Next Generation Sequencing (NGS)
- Gene editing

REAGENTS SUPPLIED WITH THE ENZYME

10X Reaction Buffer I (K00632)

HEAT INACTIVATION

75 °C for 20 minutes

STORAGE

Store at -20 °C until expiry date

STORAGE BUFFER COMPOSITION

50 mM Tris HCl, 200 mM KCl, 0.1 mM EDTA, 5% Glycerin, 1 mM DTT - pH 7.5 at 25 °C

PURITY

SDS-PAGE followed by Coomassie® blue staining confirms the purity of the enzyme (Fig. 1). The physical purity of T6 UvsX DNA Recombinase is $\geq 95\%$

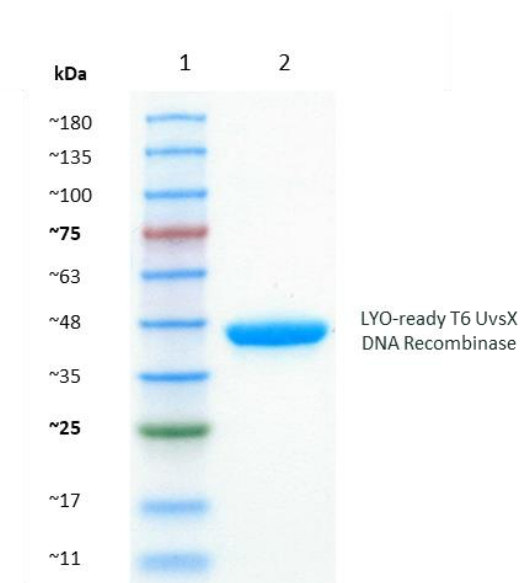


Fig. 1
Lane 1, TriColor Protein Ladder
(10-180 kDa), BR0900201
Lane 2, LYO-ready T6 UvsX DNA
Recombinase

RELATED PRODUCTS

BR15004XX:
LYO-ready RB69 Gene 32 Protein, 10 mg/ml

BR15003XX:
LYO-ready T4 UvsY Protein, 2 mg/ml

BRBR15001XX:
LYO-ready Exonuclease III, 100 U/ μ l

BRBR15005XX:
LYO-ready T4 Gene 32 Protein, 10 mg/ml

SAFETY INSTRUCTIONS

For safety instructions please see Safety Data Sheets (SDS)
Sicherheitshinweise finden Sie in den Sicherheitsdatenblättern
(SDB) unter
<http://www.biotechrabbit.com/support/documentation.html>

USEFUL HINTS

- Visit Applications at www.biotechrabbit.com for more products and product selection guides.
- Most biotechrabbit products are available in custom formulations and bulk amounts.
- In case any customization is required, please contact biotechrabbit via oem@biotechrabbit.com.

CONTACT BIOTECHRABBIT

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