



T4 UvsX DNA Recombinase

Manual

Catalog #	3562	3565	3567
Package Size	100µg	500µg	1000µg
Volume	20µl	100µl	200µl
Concentration	5µg/µl		



Important!

-20°C Storage Required

- * Immediately inspect packages
- * Freeze upon receipt



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Table of Contents

Product Description.....	3
Protein Purity.....	3
Product Source.....	3
Product Components.....	3
Reaction Buffer.....	3
Storage.....	3
Quality Control.....	4
Related Products.....	4
Ordering Information.....	4
References.....	4
Technical Support.....	5

Description:

Homologous recombination is important for the error-free repair of DNA double-strand breaks and for replication fork restart. Recombinases of the RecA/RAD51 family perform the central catalytic role in this process. UvsX recombinase is the RecA/Rad51 ortholog of bacteriophage T4. Intact Genomics (ig®) UvsX and other recombinases form presynaptic filaments on ssDNA that are activated to search for homology in dsDNA and to perform DNA strand exchange (1-3).

Protein Purity:

The physical purity of this enzyme is $\geq 98\%$ as assessed by SDS-PAGE with Coomassie® blue staining (Fig. 1).

Product Source:

E. coli BL21 (DE3) strain expressing T4 UvsX gene.

Product Components:

- T4 UvsX Recombinase
- 10x UvsX Recombinase Reaction Buffer

1x UvsX Recombinase Reaction Buffer:

20 mM Tris-acetate pH 7.8, 100 mM Potassium acetate, 10 mM Magnesium acetate, 1 mM DTT

Storage Buffer:

50 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH 7.5 @ 25°C

Storage Temperature:

-20°C

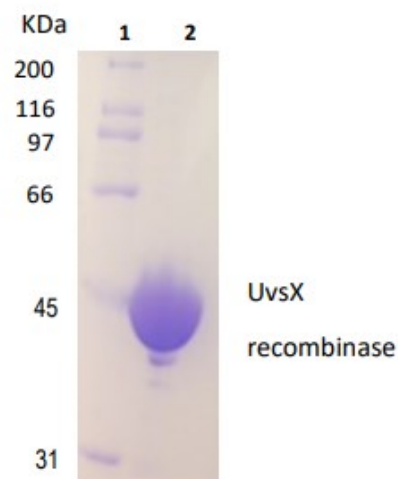


Fig. 1:
Lane 1, Protein marker
Lane 2, UvsX Recombinase

Quality Control Assays:

UvsX recombinase is free from detectable nuclease activities.

Related Products:

- T4 gp32 Protein (Cat.# 3515)
- T4 UvsY Protein (Cat.# 3572)
- *Bsu* DNA Polymerase (Cat.# 3585)
- *Sau* DNA Polymerase (Cat.# 3595)
- Exonuclease III (Cat.# 3415)
- Exonuclease IV (Nfo) (Cat.# 3425)

Ordering Information:

- Order online within the USA. Place orders on **www.intactgenomics.com** using our secure Shopping Cart.
- Order by email, phone, or fax.
Email: **sales@intactgenomics.com**
Phone: (314) 942-3655 | Toll : 855-835-7172 | Fax: (314) 942-3656
- Order via our distributors.

References:

1. Cromie GA, Connelly JC, Leach DR (2001) Recombination at double-strand breaks and DNA ends: conserved mechanisms from phage to humans. *Mol Cell* 8: 1163–1174
2. Michel B, Grompone G, Flores MJ, Bidnenko V (2004) Multiple pathways process stalled replication forks. *Proc Natl Acad Sci U S A* 101: 12783–12788
3. Liu J, Ehmsen KT, Heyer WD, Morrical SW (2011) Presynaptic filament dynamics in homologous recombination and DNA repair. *Crit Rev Biochem Mol Biol* 46: 240–270

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Our hours are Monday - Friday, 8AM to 5PM, U.S. Central Standard Time.

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