

## ORDERING INFORMATION

CAT. No.	SIZE	PACKAGE CONTENT
BR1500501	500 µg	50 µl LYO-ready T4 Gene 32 Protein, 10 mg/ml 1.5 ml 10X Reaction Buffer I
BR1500502	1000 µg	100 µl LYO-ready T4 Gene 32 Protein, 10 mg/ml 1.5 ml 10X Reaction Buffer I

## DESCRIPTION

biotechrabbit™ LYO-ready T4 Gene 32 Protein (T4 gp32) is a single-stranded DNA-binding protein derived from bacteriophage T4, essential for DNA replication, repair, and recombination processes. It engages with single-stranded DNA (ssDNA), contributing to its stabilization and safeguarding, thereby aiding a range of DNA-related metabolic functions. T4 gp32 holds a fundamental importance in upholding the integrity of the genome, guaranteeing precise DNA replication, and facilitating occurrences of homologous recombination. This protein is provided in a storage buffer containing 5% glycerol, making it suitable for further use in lyophilization.

## APPLICATIONS

- Stabilization, protection and marking of ssDNA structures
- Enhances DNA isothermal amplifications (e.g., RPA, NASBA)
- DNA Repair and Recombination
- DNA Template Stabilization
- Increase yield and processivity of Reverse Transcriptases and DNA polymerases

## REAGENTS SUPPLIED WITH THE PROTEIN

10X Reaction Buffer I (K00632)

## HEAT INACTIVATION

75 °C for 20 minutes

## STORAGE

Store at –20 °C until expiry date.

## STORAGE BUFFER COMPOSITION

20 mM Tris HCl, 100 mM NaCl, 1 mM EDTA, 5% Glycerin, 0.5 mM DTT - pH 8.1 at 25 °C

### PURITY

SDS-PAGE followed by Coomassie® blue staining confirms the purity of the protein (Fig. 1). The physical purity of T4 gp32 is  $\geq 95\%$

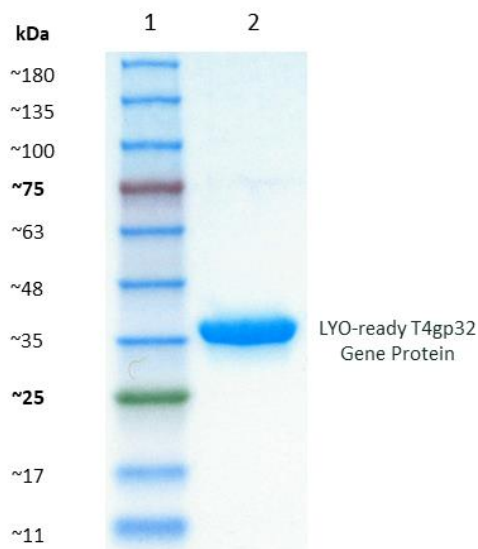


Fig. 1  
Lane 1, TriColor Protein Ladder  
(10-180 kDa), BR0900201  
Lane 2, LYO-ready T4gp32 Gene  
Protein

### RELATED PRODUCTS

BR15004XX:

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

BR15003XX:

LYO-ready T4 UvsY Protein, 2 mg/ml

BR15002XX

LYO-ready T6 UvsX DNA Recombinase, 5 mg/ml

BR15001XX:

LYO-ready Exonuclease III, 100 U/ $\mu$ l

### 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](http://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](mailto:oem@biotechrabbit.com).

### CONTACT BIOTECHRABBIT

biotechrabbit GmbH  
Volmerstr. 9, 12489 Berlin, Germany  
[info@biotechrabbit.com](mailto:info@biotechrabbit.com)  
[support@biotechrabbit.com](mailto:support@biotechrabbit.com)  
[www.biotechrabbit.com](http://www.biotechrabbit.com)  
Phone: +49 30 555 78 21 10  
Fax: +49 30 555 78 21 99

### LEGAL DISCLAIMER

Purchase of product does not include a license to perform any patented or otherwise protected applications; therefore, it is the sole responsibility of customer to determine whether any licenses for the particular application in which the product is used are required and to engage in the relevant license agreement(s).

### LIMITATION OF USE

For Research Use Only. biotechrabbit does not assume any warranty regarding the design, merchantability or fitness for a particular purpose of the product, especially, but not limited to, for any in vitro diagnostic or other usages of the products. It is the sole responsibility of the customer to obtain the required approvals from the competent authorities. The product is not suitable for administration to humans or animals.

Trademarks: biotechrabbit™, (biotechrabbit GmbH).  
valid from 09.09.2024