

ORDERING INFORMATION

CAT. No.	SIZE	PACKAGE CONTENT
BR1500401	500 µg	50 µl LYO-ready RB69 Gene 32 Protein, 10 mg/ml 1.5 ml 10X Reaction Buffer I
BR1500402	1000 µg	100 µl LYO-ready RB69 Gene 32 Protein, 10 mg/ml 1.5 ml 10X Reaction Buffer I

DESCRIPTION

biotechrabbit™ LYO-ready RB69 Gene 32 Protein (RB69 gp32) is a single-stranded DNA-binding protein derived from bacteriophage RB69, essential for DNA replication, repair, and recombination processes. In biotechnology, RB69 gp32 serves as a valuable tool for enhancing various applications, such as PCR and isothermal amplifications. Its ability to stabilize replication forks, facilitate DNA synthesis, and protect DNA during repair makes it useful for improving the efficiency and fidelity of DNA amplification techniques. Additionally, RB69 gp32's involvement in recombination processes offers potential applications in genetic engineering, gene editing, and the creation of novel DNA constructs, enabling researchers to manipulate and modify genetic material with greater precision and control. 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

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

PURITY

SDS-PAGE followed by Coomassie® blue staining confirms the purity of the protein (Fig. 1). The physical purity of RB69 gp32 is $\geq 95\%$

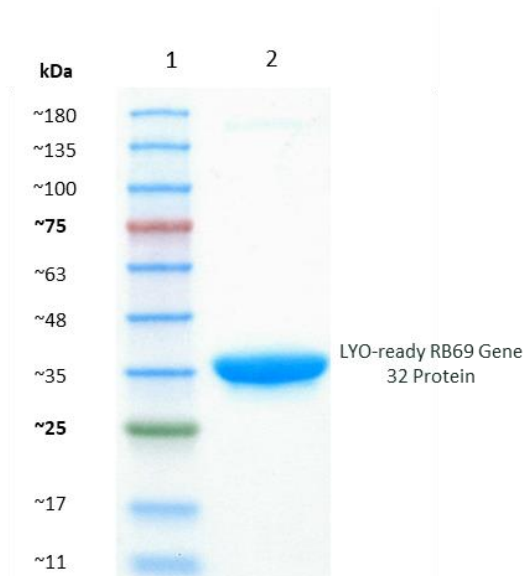


Fig. 1
Lane 1, TriColor Protein Ladder
(10-180 kDa), BR0900201
Lane 2, LYO-ready RB69 Gene 32
Protein

RELATED PRODUCTS

BR15002XX

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

BR15003XX:

LYO-ready T4 UvsY Protein, 2 mg/ml

BR15001XX:

LYO-ready Exonuclease III, 100 U/ μ l

BR15005XX

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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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.

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valid from 05.09.2024