

T4 gp32 Protein



Catalog #	3515
Package Size	500 µg
Volume	100 µl
Concentration	5 µg/µl

Description

Intact Genomics (ig®) T4 gp32 is a single-stranded DNA binding protein required for T4 DNA replication, recombination, and repair (1, 2).

It improves the efficiency of reverse transcriptase (RT) during RT-PCR (3), enhances T4 DNA polymerase activity (4), as well as increases the yield of PCR products (5).

Protein Purity

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

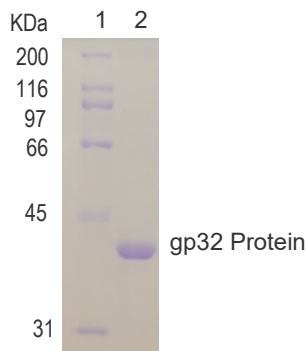


Fig. 1: Lane 1. Protein Marker
Lane 2. gp32 Protein

Product Source

E. coli BL21 (DE3) strain expressing T4 gp32 gene.

Product Includes

- T4 gp32 protein
- 10X gp32 reaction buffer

1x GP 32 Reaction Buffer Composition

20 mM Tris-acetate
100 mM Potassium acetate
10 mM Magnesium acetate
1 mM DTT
pH 7.8 @ 25°C

Storage Temperature

-20 °C

Storage Buffer

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

Heat Inactivation

65°C for 20 min

Quality Control assays

T4 gp32 protein is free from detectable nuclease activities.

References

1. Chase, J. W. and Williams, K. R. (1986) Ann. Rev. Biochem. 55, 103-136
2. Sinha, N. K. and Snustad, D. P. (1971) J. Mol. Biol. 62, 267-271.
3. Baugh, L.R. et al. (2001). Nucl. Acids Res. 29, e29.
4. Topal, M.D. and Sinha, N.K. (1983). J. Biol. Chem. 258, 12274-12279.
5. Schwartz, K. et al. (1990). Nucl. Acids Res. 18, 1079.

Related Products

- T4 UvsX DNA Recombinase (Cat.# 3562)
- T4 UvsY Protein (Cat.# 3572)
- Bsu DNA Polymerase (Cat.# 3585)
- Sau DNA Polymerase (Cat.# 3595)
- Exonuclease III (Cat.# 3415)
- Exonuclease IV (Nfo) (Cat.# 3425)

Technical Support

Intact Genomics is committed to supporting the worldwide scientific research community by supplying the highest quality reagents. Each new lot of our products is tested to ensure they meet the quality standards and specifications designated for the product. Please follow the instructions carefully and contact us if additional assistance is needed. We appreciate your business and your feedback regarding the performance of our products in your applications.