

## T4 Gene 32 Protein

**CATALOG NO.:** M1232-100  
**AMOUNT:** 100 µg (10 µl)  
**CONCENTRATION:** 10 mg/ml  
**FORM:** Liquid  
**SOURCE:** Recombinant *E. coli*

**KIT COMPONENTS:**

Components	Volume	Part No.
T4 Gene 32 Protein	100 µg	M1232-100-1
10X T4 Gene 32 Reaction Buffer	300 µl	M1232-100-2

**DESCRIPTION:** T4 Gene 32 Protein is a single-stranded DNA (ssDNA) binding protein which is required for T4 bacteriophage replication, recombination and repair. T4 Gene 32 Protein binds cooperatively and stoichiometrically to ssDNA effectively stabilizing it. This protein enhances DNA synthesis activities, including PCR amplification and DNA sequencing.

**APPLICATIONS:**

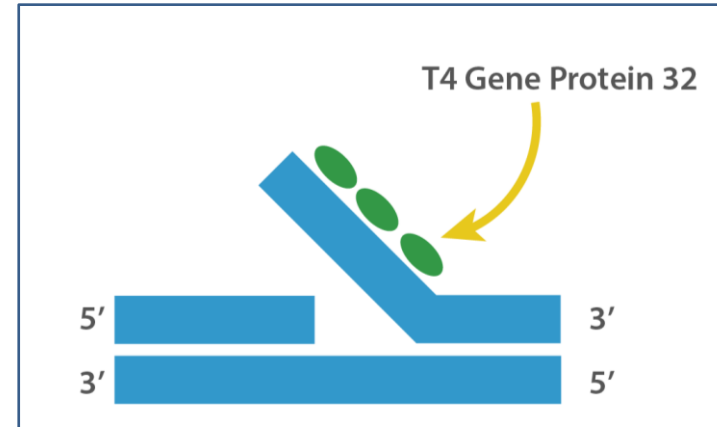
- Increases yield and processivity of reverse transcription
- Increases yield and specificity of PCR
- Improves restriction enzyme digestion

**ENZYME STORAGE BUFFER:** 10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 0.1 mM EDTA, 1 mM DTT, and 50% (v/v) Glycerol.

**STORAGE CONDITIONS:** Store at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled properly.

**10X T4 GENE 32 PROTEIN REACTION BUFFER COMPONENTS:** 500 mM Potassium Acetate, 200 mM Tris-acetate, 50 mM Magnesium Acetate, 10 mM DTT, pH 8.0

**REACTION CONDITIONS:** Use 1X T4 Gene 32 Protein Reaction Buffer and incubate at 37°C.



**RELATED PRODUCTS:**

- RecA Protein, *E.coli* (Cat# M1231-200)

**FOR RESEARCH USE ONLY! Not to be used on humans.**