**T4 Gene 32 Protein (Single-stranded DNA Binding Protein, SSB)**

|     | 02-040 | 200 μg | 02-040-5 | 1 mg |

**T4 gene 32 protein** is a single-stranded DNA binding protein from phage T4 which binds to single-stranded DNA with high specificity (1, 2). It is involved in DNA replication and recombination. The T4 phage-derived **SSB** gene was expressed in *E.coli* and the protein was highly purified. MW is 33.5 kDa.

**Applications:**
1. Promoting DNA replication and recombination by stabilizing single-stranded DNA (1)
2. Increase specificity and yields of long PCR products (3)

**Quality Assurance:** Greater than 95% of protein determined by SDS-PAGE (CBB staining)
The absence of endonucleases and exonucleases was confirmed.

**Form:** 10 mg/ml in 20mM Tris-HCl (pH 8.0), 100mM NaCl, 0.5mM dithiothreitol, 1mM EDTA, 50% glycerol

**Storage:** -20°C

**Data Link:** UniProtKB/Swiss-Prot [P03695](https://www.uniprot.org/uniprot/P03695) (VHED_BPT4)

**References:**

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**Fig.1** SDS-PAGE of T4 SSB protein

**Fig.2** Binding activity to single-stranded DNA

0.02 ug/ul of M13mp18ssDNA was incubated with 0(lane0), 0.025(lane1), 0.05(lane2), and 0.1(lane3) ug/ul of SSB at 37°C for 30 min and then 10 ul aliquot was subjected to electrophoresis in agarose.

**Related product:**  #02-042 E.coli SSB protein,  #02-044 Taq SSB