

Datasheet for ABIN2452207

T4 SSB (Active) Protein**3** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	200 µg
Target:	T4 SSB
Origin:	Bacteriophage T4
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Characteristics:	The absence of endonucleases and exonucleases was confirmed.
Purity:	> 95 % of protein determined by SDS-PAGE (CBB staining)

Target Details

Target:	T4 SSB
Target Type:	Phage Protein
Background:	<p>T4 gene 32 protein is a single-stranded DNA binding protein from phage T4 which binds to single-stranded DNA with high specificity. 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.</p>
UniProt:	P03695

Application Details

Application Notes:	1. Promoting DNA replication and recombination by stabilizing single-stranded DNA 2. Increase specificity and yields of long PCR products
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Restrictions:	For Research Use only
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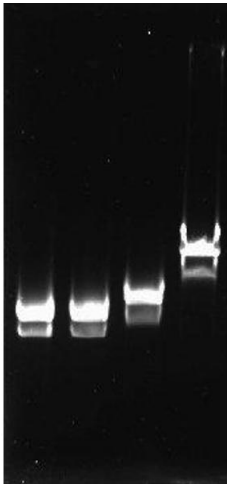
Handling

Format:	Liquid
Concentration:	10 mg/mL
Buffer:	20 mM Tris-HCl (pH 8.0), 100 mM NaCl, 0.5 mM dithiothreitol, 1 mM EDTA, 50 % glycerol
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Bittner, Burke, Alberts: "Purification of the T4 gene 32 protein free from detectable deoxyribonuclease activities." in: The Journal of biological chemistry , Vol. 254, Issue 19, pp. 9565-72, (1979) (PubMed).
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Alberts, Frey: "T4 bacteriophage gene 32: a structural protein in the replication and recombination of DNA." in: **Nature**, Vol. 227, Issue 5265, pp. 1313-8, (1970) ([PubMed](#)).



Polymerase Chain Reaction

Image 1.

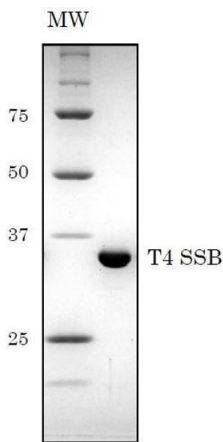


Fig.1 SDS-PAGE of T4 SSB protein

Western Blotting

Image 2.

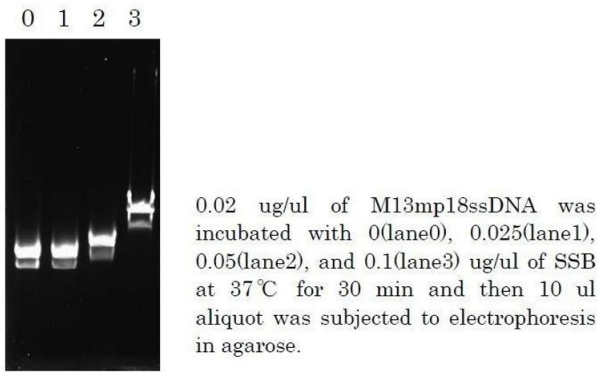


Fig.2 Binding activity to single-stranded DNA

Polymerase Chain Reaction

Image 3.