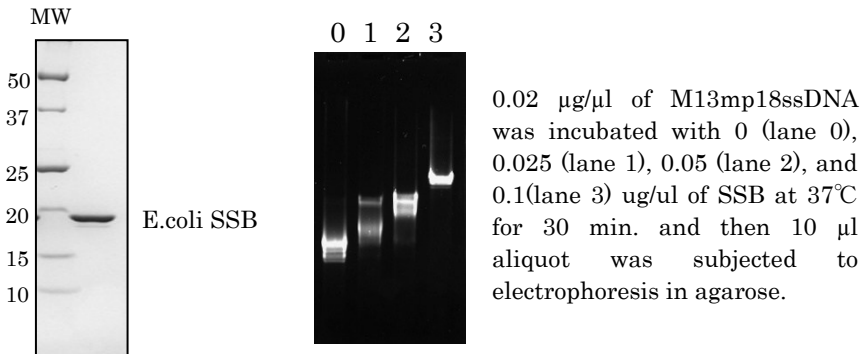


## *E. coli* SSB (Single-stranded DNA Binding) protein

<b>Product code</b>	02-042      02-042-5
<b>Size</b>	200 µg      1mg
<b>Storage</b>	-20°C
<b>Product Description</b>	The <i>E. coli</i> <b>SSB</b> gene was expressed as the recombinant protein in <i>E. coli</i> highly purified. The molecular mass is 18.9 kDa.
<b>Concentration</b>	2.0 mg/ml
<b>Buffer</b>	20 mM Tris-HCl (pH 7.6), 200 mM NaCl, 1 mM dithiothreitol, 1mM EDTA, 50% glycerol
<b>Purity</b>	Greater than 95% purity as determined by SDS-PAGE (CBB staining) The absence of endonucleases and exonucleases was confirmed.
<b>Application</b>	1. Functional single-stranded DNA-binding protein for studying DNA replication and recombination 2. Enhancement of the specificity and yield of PCR
<b>Background</b>	<i>E. coli</i> <b>single-stranded DNA binding protein (SSB)</b> binds to single-stranded DNA with high specificity (1, 2). It is involved in DNA replication and recombination <i>in vivo</i> .
<b>Data Image</b>	 <p>0.02 µg/µl of M13mp18ssDNA was incubated with 0 (lane 0), 0.025 (lane 1), 0.05 (lane 2), and 0.1 (lane 3) µg/µl of SSB at 37°C for 30 min. and then 10 µl aliquot was subjected to electrophoresis in agarose.</p> <p>Fig.1 SDS-PAGE of <i>E. coli</i> SSB      Fig.2 Binding activity to single-stranded DNA</p>
<b>Data Link</b>	UniProtKB/Swiss-Prot <a href="#">POAGE0</a> (SSB_ECOLI)
<b>References</b>	1. Krauss G <i>et al</i> (1981) "Escherichia coli single-strand deoxyribonucleic acid binding protein: Stability, specificity, and kinetics of complexes with oligonucleotides and deoxyribonucleic acid." <i>Biochemistry</i> <b>20</b> : 5346-5352 PMID: <a href="#">7028102</a> 2. Weiner JH <i>et al</i> (1975) "The deoxyribonucleic acid unwinding protein of Escherichia coli. Properties and functions in replication." <i>J. Biol. Chem.</i> <b>250</b> :1972-1980 PMID: <a href="#">1090613</a>
<b>Related product</b>	02-040 T4 SSB protein      02-044 <i>Taq</i> SSB protein
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