

# Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

## Top10?serB

RRID:Addgene\_34928

Type: Plasmid

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### Proper Citation

RRID:Addgene\_34928

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### Plasmid Information

**URL:** <http://www.addgene.org/34928>

**Proper Citation:** RRID:Addgene\_34928

**Bacterial Resistance:** None

**Defining Citation:** [PMID:21868676](#)

**Vector Backbone Description:** Vector Backbone:None; Vector Types:; Bacterial Resistance:None

**Comments:** To prevent possible enzymatic dephosphorylation of O-phospho-L-serine (Sep) in vivo, the gene encoding phosphoserine phosphatase (serB), which catalyzes the last step in serine biosynthesis, was deleted from Escherichia coli strain Top10. Markerless gene deletions were carried out using a  $\lambda$ -red and FLP recombinase-based gene knockout strategy.

**Plasmid Name:** Top10?serB

**Record Creation Time:** 20220422T222148+0000

**Record Last Update:** 20260808T081550+0000

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### Ratings and Alerts

No rating or validation information has been found for Top10?serB.

No alerts have been found for Top10?serB.

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### Data and Source Information

**Source:** [Addgene](#)

## Usage and Citation Metrics

We have not found any literature mentions for this resource.