

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

B95(DE3) ?A ?fabR ?serB

RRID:Addgene_197655

Type: Plasmid

Proper Citation

RRID:Addgene_197655

Plasmid Information

URL: <http://www.addgene.org/197655>

Proper Citation: RRID:Addgene_197655

Insert Name: This strain is a derivative of BL21(DE3) with no specific assignment of the UAG codo

Organism: n/a

Bacterial Resistance: None

Defining Citation: [PMID:31243963](#)

Vector Backbone Description: Vector Backbone:n/a; Vector Types:This is a strain, not a plasmid; Bacterial Resistance:None

Comments: Derivative of BL21(DE3) with no specific assignment of the UAG codon - 95 endogenous TAG codons mutated to TAA - RF1 (prfA) deleted and fabR spontaneously mutated - serB deleted for phosphoserine genetic code expansion expression applications Primers for verification: - for RF1 (prfA) deletion: AAGCCTTCTATCGTTGCCAAAC, TTATTCCTGCTCGGACAACG - for serB deletion: AGTTTTGTGCGAGCCATCTTCCACC, GTGATGGTGTTCAGGCATGACAGG This strain is used for expressing phosphoserine-containig proteins using genetic code expansion without buildup of prematurely truncated protein - Recommended plasmids for expressing phosphorylated proteins in this strain are Addgene #173897 (pSer GCE machinery vector) and #174075/174076 (compatible p15a origin of replication plasmids expressing sfGFP proteins from a T7 promoter; sfGFP genes can be removed by restriction digest and replaced with protein-of-interest). Original B95 strain: Mukai, T., Highly reproductive Escherichia coli cells with no specific assignment to the UAG codon. Sci. Rep. 5: 9699 (2015). PMID 25982672

Plasmid Name: B95(DE3) ?A ?fabR ?serB

Record Creation Time: 20230322T080553+0000

Record Last Update: 20260815T082600+0000

Ratings and Alerts

No rating or validation information has been found for B95(DE3) ?A ?fabR ?serB.

No alerts have been found for B95(DE3) ?A ?fabR ?serB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Pillan A, et al. (2026) Molecular basis for the activation of Aurora A and Plk1 kinases during mitotic entry. The EMBO journal, 45(5), 1460.

Eddins AJ, et al. (2024) Tetrazine Amino Acid Encoding for Rapid and Complete Protein Bioconjugation. Bio-protocol, 14(16), e5048.