

Resource Summary Report

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

rEcoli XpS

RRID:Addgene_192872

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/192872>

Proper Citation: RRID:Addgene_192872

Insert Name: MG1655-C321 mutS+, ?-, ?(ybhB-bioAB)::zeoR, ?prfA, ?serB

Organism: E. coli

Bacterial Resistance: Bleocin (Zeocin)

Defining Citation: [PMID:36280721](#)

Vector Backbone Description: Vector Backbone:N/A; Vector Types;; Bacterial Resistance:Bleocin (Zeocin)

Comments: MG1655-C321 -- All 321 UAG codons changed to UAA. mutS+ -- Restores normal spontaneous mutation frequency. (?-) -- Deleted Lambda Phage operon to allow growth at 37C. ?(ybhB-bioAB)::zeoR -- Deletion of biotin biosynthetic operon using Zeocin cassette; strain is d-biotin auxotroph. ?prfA -- Deletion of polypeptide release factor 1 (RF1) to prevent translation termination at UAG codons. ?serB -- Deletion of phosphoserine phosphatase to provide intracellular source of phosphoserine; strain is Serine auxotroph. The genome sequence of a similar strain (C321.deltaA) was deposited at NCBI (accession # CP006698.1)

Plasmid Name: rEcoli XpS

Record Creation Time: 20221216T080419+0000

Record Last Update: 20260815T082433+0000

Ratings and Alerts

No rating or validation information has been found for rEcoli XpS.

No alerts have been found for rEcoli XpS.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.