

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 30, 2026

## Strain: C321.?A

RRID:Addgene\_68306

Type: Plasmid

### Proper Citation

RRID:Addgene\_68306

### Plasmid Information

**URL:** <http://www.addgene.org/68306>

**Proper Citation:** RRID:Addgene\_68306

**Insert Name:** None

**Bacterial Resistance:** Bleocin (Zeocin)

**Defining Citation:** [PMID:26350500](#)

**Vector Backbone Description:** Vector Backbone:None; Vector Types:; Bacterial Resistance:Bleocin (Zeocin)

**Comments:** Derived from Lajoie, et. al., Genomically recoded organisms expand biological functions, Science, 2013, with the following genomic modifications: ?mutS:zeo, ?tolC, ?bla:tolC, SerB-/?SerB

**Plasmid Name:** Strain: C321.?A

**Record Creation Time:** 20220422T222425+0000

**Record Last Update:** 20260829T080915+0000

### Ratings and Alerts

No rating or validation information has been found for Strain: C321.?A.

No alerts have been found for Strain: C321.?A.

### Data and Source Information

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

## Usage and Citation Metrics

We found 13 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Anastasakis DG, et al. (2024) Nuclear PKM2 binds pre-mRNA at folded G-quadruplexes and reveals their gene regulatory role. *Molecular cell*, 84(19), 3775.

Perez-Pepe M, et al. (2023) 7SK methylation by METTL3 promotes transcriptional activity. *Science advances*, 9(19), eade7500.

Hou J, et al. (2022) Toward efficient multiple-site incorporation of unnatural amino acids using cell-free translation system. *Synthetic and systems biotechnology*, 7(1), 522.

Chen X, et al. (2021) A linear DNA template-based framework for site-specific unnatural amino acid incorporation. *Synthetic and systems biotechnology*, 6(3), 192.

Palani S, et al. (2020) Phosphoregulation of tropomyosin-actin interaction revealed using a genetic code expansion strategy. *Wellcome open research*, 5, 161.

Di Mattia T, et al. (2020) FFAT motif phosphorylation controls formation and lipid transfer function of inter-organelle contacts. *The EMBO journal*, 39(23), e104369.

Mohler K, et al. (2019) Expression of authentic post-translationally modified proteins in organisms with expanded genetic codes. *Methods in enzymology*, 626, 539.

Gassaway BM, et al. (2019) Distinct Hepatic PKA and CDK Signaling Pathways Control Activity-Independent Pyruvate Kinase Phosphorylation and Hepatic Glucose Production. *Cell reports*, 29(11), 3394.

Niemi NM, et al. (2019) Pptc7 is an essential phosphatase for promoting mammalian mitochondrial metabolism and biogenesis. *Nature communications*, 10(1), 3197.

Barber KW, et al. (2018) Kinase Substrate Profiling Using a Proteome-wide Serine-Oriented Human Peptide Library. *Biochemistry*, 57(31), 4717.

Barber KW, et al. (2018) Encoding human serine phosphopeptides in bacteria for proteome-wide identification of phosphorylation-dependent interactions. *Nature biotechnology*, 36(7), 638.

Guo X, et al. (2017) Ptc7p Dephosphorylates Select Mitochondrial Proteins to Enhance Metabolic Function. *Cell reports*, 18(2), 307.

Barber KW, et al. (2017) Expression of Recombinant Phosphoproteins for Signal Transduction Studies. *Methods in molecular biology* (Clifton, N.J.), 1636, 71.