

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

[pET30a-AlkB](#)

RRID:Addgene_79050

Type: Plasmid

Proper Citation

RRID:Addgene_79050

Plasmid Information

URL: <http://www.addgene.org/79050>

Proper Citation: RRID:Addgene_79050

Insert Name: AlkB

Organism: E.coli

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:26214130](#)

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:5243; Vector Backbone:pET30a; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pET30a-AlkB

Relevant Mutation: A truncated AlkB with deletion of the amino (N)-terminal 11 amino acids

Record Creation Time: 20220422T222519+0000

Record Last Update: 20260815T082028+0000

Ratings and Alerts

No rating or validation information has been found for pET30a-AlkB.

No alerts have been found for pET30a-AlkB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Peña N, et al. (2025) In vivo structure profiling reveals human cytosolic and mitochondrial tRNA structurome and interactome in response to stress. *Nature communications*, 16(1), 5041.

Tutanov OS, et al. (2025) A comprehensive analysis of supermere, exomere, and extracellular vesicle isolation and cargo in colorectal cancer. *Cell reports*, 44(10), 116287.

Tresky R, et al. (2024) TRMT10A dysfunction perturbs codon translation of initiator methionine and glutamine and impairs brain functions in mice. *Nucleic acids research*, 52(15), 9230.

Rappol T, et al. (2024) tRNA expression and modification landscapes, and their dynamics during zebrafish embryo development. *Nucleic acids research*, 52(17), 10575.

Drino A, et al. (2023) Identification of RNA helicases with unwinding activity on angiogenin-processed tRNAs. *Nucleic acids research*, 51(3), 1326.

Scheepbouwer C, et al. (2023) ALL-tRNAseq enables robust tRNA profiling in tissue samples. *Genes & development*, 37(5-6), 243.

Bryan C, et al. (2022) In vitro eradication of abasic site-mediated DNA-peptide/protein cross-links by *Escherichia coli* long-patch base excision repair. *The Journal of biological chemistry*, 298(7), 102055.

Chen Z, et al. (2021) METTL1 promotes hepatocarcinogenesis via m7 G tRNA modification-dependent translation control. *Clinical and translational medicine*, 11(12), e661.

Cui J, et al. (2021) Nucleotide resolution profiling of m3C RNA modification by HAC-seq. *Nucleic acids research*, 49(5), e27.

Orellana EA, et al. (2021) METTL1-mediated m7G modification of Arg-TCT tRNA drives oncogenic transformation. *Molecular cell*, 81(16), 3323.

Tucker JM, et al. (2020) Alteration of the Premature tRNA Landscape by Gammaherpesvirus Infection. *mBio*, 11(6).

Schmidt L, et al. (2019) Graphical Workflow System for Modification Calling by Machine Learning of Reverse Transcription Signatures. *Frontiers in genetics*, 10, 876.

Lin S, et al. (2019) Nucleotide resolution profiling of m7G tRNA modification by TRAC-Seq. *Nature protocols*, 14(11), 3220.

Zhou H, et al. (2019) Evolution of a reverse transcriptase to map N1-methyladenosine in human messenger RNA. *Nature methods*, 16(12), 1281.

Lin S, et al. (2018) Mettl1/Wdr4-Mediated m7G tRNA Methylome Is Required for Normal mRNA Translation and Embryonic Stem Cell Self-Renewal and Differentiation. *Molecular cell*, 71(2), 244.

Cosentino C, et al. (2018) Pancreatic β -cell tRNA hypomethylation and fragmentation link TRMT10A deficiency with diabetes. *Nucleic acids research*, 46(19), 10302.