

# Resource Summary Report

Generated by [dkNET](#) on Sep 4, 2026

## pSAM\_AraC

RRID:Addgene\_91569

Type: Plasmid

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### Proper Citation

RRID:Addgene\_91569

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### Plasmid Information

**URL:** <http://www.addgene.org/91569>

**Proper Citation:** RRID:Addgene\_91569

**Insert Name:** AraC/PBAD

**Organism:** E. coli

**Bacterial Resistance:** Ampicillin and Kanamycin

**Defining Citation:** [PMID:28614382](#)

**Vector Backbone Description:** Backbone Marker:N/A; Backbone Size:4559; Vector Backbone:pSAM\_Ec; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin and Kanamycin

**Comments:** Mariner himar1C9 transposase driven by an arabinose promoter on an R6K gamma suicide plasmid. The transposon allows identification of fitness factors by Illumina sequencing. This transposon will randomly insert a kanamycin resistance cassette into genomic TA sites. Ampicillin resistance is contained on the plasmid backbone. For further background, see: Goodman, Andrew L., Meng Wu, and Jeffrey I. Gordon. "Identifying Microbial Fitness Determinants by Insertion Sequencing (INSeq) Using Genome-Wide Transposon Mutant Libraries." Nature Protocols 6.12 (2011): 1969–1980. PMC. Web. 11 Apr. 2017. Wiles, Travis J. et al. "Combining Quantitative Genetic Footprinting and Trait Enrichment Analysis to Identify Fitness Determinants of a Bacterial Pathogen." Ed. Danielle A. Garsin. PLoS Genetics 9.8 (2013): e1003716. PMC. Web. 11 Apr. 2017.

**Plasmid Name:** pSAM\_AraC

**Record Creation Time:** 20220422T222619+0000

**Record Last Update:** 20260902T050517+0000

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### Ratings and Alerts

No rating or validation information has been found for pSAM\_AraC.

No alerts have been found for pSAM\_AraC.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Hwang J, et al. (2025) Integrated Tn-seq and MAGE-assisted rapid genome engineering targeting in Escherichia coli. Trends in biotechnology.

English MA, et al. (2023) A self-propagating, barcoded transposon system for the dynamic rewiring of genomic networks. Molecular systems biology, 19(6), e11398.

Pearson MM, et al. (2022) Construction of an Ordered Transposon Library for Uropathogenic Proteus mirabilis HI4320. Microbiology spectrum, 10(6), e0314222.

Ishizawa H, et al. (2022) Genome-wide identification of bacterial colonization and fitness determinants on the floating macrophyte, duckweed. Communications biology, 5(1), 68.

Forsyth VS, et al. (2019) Transposon Insertion Site Sequencing in a Urinary Tract Model. Methods in molecular biology (Clifton, N.J.), 2021, 297.