

Resource Summary Report

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

[pEVOL-pAzF](#)

RRID:Addgene_31186

Type: Plasmid

Proper Citation

RRID:Addgene_31186

Plasmid Information

URL: <http://www.addgene.org/31186>

Proper Citation: RRID:Addgene_31186

Insert Name: M.j. p-azidohenylalanine RS (2 copies +tRNA)

Organism: M.jannaschii

Bacterial Resistance: Chloramphenicol

Defining Citation: [PMID:12148987](#)

Vector Backbone Description: Backbone Size:5000; Vector Backbone:p15A; Vector Types:Bacterial Expression; Bacterial Resistance:Chloramphenicol

Plasmid Name: pEVOL-pAzF

Relevant Mutation: Y32T, E107N, D158P, I159L, L162Q, D286R

Record Creation Time: 20220422T222135+0000

Record Last Update: 20260815T081333+0000

Ratings and Alerts

No rating or validation information has been found for pEVOL-pAzF.

No alerts have been found for pEVOL-pAzF.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 52 mentions in open access literature.

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

Balbierer K, et al. (2025) Modular Virus-like Particles for Antigen Presentation: Comparing Genetic Fusion and Click-Chemistry for Purification. *International journal of molecular sciences*, 26(20).

Groves NS, et al. (2025) A monomeric envelope glycoprotein cytoplasmic tail is sufficient for HIV-1 Gag lattice trapping and incorporation. *Journal of virology*, 99(5), e0210524.

Liu H, et al. (2025) Noncanonical amino acids as prophage inducers for protein regulation in bacteria-based delivery systems. *mBio*, 16(4), e0398824.

Khan YA, et al. (2025) SNARE disassembly requires Sec18/NSF side loading. *Nature structural & molecular biology*, 32(9), 1708.

Lundrigan E, et al. (2025) Monitoring SARS-CoV-2 Nsp13 helicase binding activity using expanded genetic code techniques. *RSC chemical biology*, 6(6), 860.

Lee D, et al. (2024) Development of orthogonal aminoacyl-tRNA synthetase mutant for incorporating a non-canonical amino acid. *AMB Express*, 14(1), 60.

Gwyther REA, et al. (2024) Optimising CNT-FET biosensor design through modelling of biomolecular electrostatic gating and its application to β -lactamase detection. *Nature communications*, 15(1), 7482.

Liu Z, et al. (2024) Engineering an artificial catch bond using mechanical anisotropy. *Nature communications*, 15(1), 3019.

Gran-Scheuch A, et al. (2024) Designing Michaelases: exploration of novel protein scaffolds for iminium biocatalysis. *Faraday discussions*, 252, 279.

Khan YA, et al. (2024) Sec18 side-loading is essential for universal SNARE recycling across cellular contexts. *bioRxiv : the preprint server for biology*.

Guo AD, et al. (2023) Genetically Encoded Noncanonical Amino Acids in Proteins to Investigate Lysine Benzoylation. *Methods in molecular biology* (Clifton, N.J.), 2676, 131.

Islam J, et al. (2023) Design of Polarity-Dependent Immunosensors Based on the Structural Analysis of Engineered Antibodies. *ACS chemical biology*, 18(8), 1863.

Wang Y, et al. (2023) Noncanonical amino acids as doubly bio-orthogonal handles for one-pot preparation of protein multiconjugates. *Nature communications*, 14(1), 974.

Cheng K, et al. (2023) Site-Specific Modification of Virus-Like Particles for Exogenous Tumor Antigen Display and Minimizing Preexisting Immunity. *Small* (Weinheim an der Bergstrasse, Germany), 19(23), e2300125.

Chen W, et al. (2023) Site-specific incorporation of biophysical probes into NF- κ B with non-canonical amino acids. *Methods (San Diego, Calif.)*, 213, 18.

Ruppert M, et al. (2022) Population Dynamics of Stretching Excitations of p-Azido-phenylalanine Incorporated in Calmodulin-Peptide Complexes. *The journal of physical chemistry. B*, 126(2), 368.

Ma X, et al. (2022) Efficient incorporation of p-azido-l-phenylalanine into the protein using organic solvents. *Protein expression and purification*, 200, 106158.

Michielsen CMS, et al. (2022) Ratiometric Bioluminescent Zinc Sensor Proteins to Quantify Serum and Intracellular Free Zn²⁺. *ACS chemical biology*, 17(6), 1567.

Kesici MZ, et al. (2022) A simple and general approach to generate photoactivatable DNA processing enzymes. *Nucleic acids research*, 50(6), e31.

Saurabh S, et al. (2022) ATP-responsive biomolecular condensates tune bacterial kinase signaling. *Science advances*, 8(7), eabm6570.