

Resource Summary Report

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

[pDule-3-nitroTyrosine \(5B\)](#)

RRID:Addgene_85498

Type: Plasmid

Proper Citation

RRID:Addgene_85498

Plasmid Information

URL: <http://www.addgene.org/85498>

Proper Citation: RRID:Addgene_85498

Insert Name: 3-nitroTyrosine tRNA synthetase and cognate amber suppressing tRNA derived from *M. jannaschii* Tyrosine synthetase/tRNA system

Organism: *Methanocaldococcus jannaschii*

Bacterial Resistance: Tetracycline

Defining Citation: [PMID:24611875](#)

Vector Backbone Description: Backbone Size:5400; Vector Backbone:pDule; Vector Types:Bacterial Expression; Bacterial Resistance:Tetracycline

Plasmid Name: pDule-3-nitroTyrosine (5B)

Relevant Mutation: Y32H H70C D158S I159A L162R

Record Creation Time: 20220422T222550+0000

Record Last Update: 20260815T082125+0000

Ratings and Alerts

No rating or validation information has been found for pDule-3-nitroTyrosine (5B).

No alerts have been found for pDule-3-nitroTyrosine (5B).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Bischoff AJ, et al. (2023) Protein-Based Model for Energy Transfer between Photosynthetic Light-Harvesting Complexes Is Constructed Using a Direct Protein-Protein Conjugation Strategy. *Journal of the American Chemical Society*, 145(29), 15827.

Porter JJ, et al. (2020) Tyrosine nitration on calmodulin enhances calcium-dependent association and activation of nitric-oxide synthase. *The Journal of biological chemistry*, 295(8), 2203.