

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

pDule-IBBN (G2)

RRID:Addgene_85500

Type: Plasmid

Proper Citation

RRID:Addgene_85500

Plasmid Information

URL: <http://www.addgene.org/85500>

Proper Citation: RRID:Addgene_85500

Insert Name: IBBN (G2) synthetase and cognate amber suppressing tRNA derived from *M. jannaschii* Tyrosine synthetase/tRNA system

Organism: *Methanocaldococcus jannaschii*

Bacterial Resistance: Tetracycline

Defining Citation: [PMID:20839808](#)

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

Comments: This synthetase is permissive and can incorporate a variety of amino acids structurally analogous to IBBN. For a more complete functional and structural analysis of this synthetase, also see Cooley et al. *Chembiochem.* 2014, 15(12): 1810–1819.

Plasmid Name: pDule-IBBN (G2)

Relevant Mutation: Y32G L65E F108W Q109M D158S R162K

Record Creation Time: 20220422T222550+0000

Record Last Update: 20260808T082306+0000

Ratings and Alerts

No rating or validation information has been found for pDule-IBBN (G2).

No alerts have been found for pDule-IBBN (G2).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.