

# Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 5, 2026

## pJK653

RRID:Addgene\_71630

Type: Plasmid

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### Proper Citation

RRID:Addgene\_71630

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### Plasmid Information

**URL:** <http://www.addgene.org/71630>

**Proper Citation:** RRID:Addgene\_71630

**Insert Name:** phosphoribosylaminoimidazole carboxylase

**Organism:** Treponema denticola

**Bacterial Resistance:** Ampicillin

**Vector Backbone Description:** Backbone Size:3666; Vector Backbone:pET23a; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

**Comments:** This protein is based on the one referenced in NCBI WP\_002681904.1, which is incorrectly annotated as a N5-carboxyaminoimidazole ribonucleotide mutase. Functional expression studies show that the active form does not possess this activity and it instead has the characteristic reactivity of a class II PurE or 5-aminoimidazole ribonucleotide (AIR) carboxylase

**Plasmid Name:** pJK653

**Relevant Mutation:** changes serine-38 to threonine, phenylalanine-79 to tryptophan

**Record Creation Time:** 20220422T222441+0000

**Record Last Update:** 20260905T080036+0000

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### Ratings and Alerts

No rating or validation information has been found for pJK653.

No alerts have been found for pJK653.

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### Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.