

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

Nano-lantern(ATP1)/pcDNA3

RRID:Addgene_51992

Type: Plasmid

Proper Citation

RRID:Addgene_51992

Plasmid Information

URL: <http://www.addgene.org/51992>

Proper Citation: RRID:Addgene_51992

Insert Name: Nano-lantern_ATP1

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23232392](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: GenBank accession number: JN859502. Although they differ by only three N-terminal amino acids in the RLuc8-S257G moiety, their dynamic range and brightness were vastly different. Nano-lantern (ATP1) exhibited enough dynamic range (200%) for functional imaging, and was 1.5-fold brighter than Nano-lantern (ATP0) at ATP-saturating condition. They had similar affinities for ATP.

Plasmid Name: Nano-lantern(ATP1)/pcDNA3

Relevant Mutation: S257G in RLuc8

Record Creation Time: 20220422T222305+0000

Record Last Update: 20260808T081809+0000

Ratings and Alerts

No rating or validation information has been found for Nano-lantern(ATP1)/pcDNA3.

No alerts have been found for Nano-lantern(ATP1)/pcDNA3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.