

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 2, 2026

CT-Nano-lantern(ATP1)/pENTR1A

RRID:Addgene_51991

Type: Plasmid

Proper Citation

RRID:Addgene_51991

Plasmid Information

URL: <http://www.addgene.org/51991>

Proper Citation: RRID:Addgene_51991

Insert Name: Nano-lantern_ATP1

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23232392](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Vector Backbone:pENTR1A; Vector Types:Gateway Cloning; Bacterial Resistance:Kanamycin

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: CT-Nano-lantern(ATP1)/pENTR1A

Relevant Mutation: S257G in RLuc8

Record Creation Time: 20220422T222305+0000

Record Last Update: 20260902T045639+0000

Ratings and Alerts

No rating or validation information has been found for CT-Nano-lantern(ATP1)/pENTR1A.

No alerts have been found for CT-Nano-lantern(ATP1)/pENTR1A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.