

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

Nano-lantern(Ca²⁺)_600/pcDNA3

RRID:Addgene_51982

Type: Plasmid

Proper Citation

RRID:Addgene_51982

Plasmid Information

URL: <http://www.addgene.org/51982>

Proper Citation: RRID:Addgene_51982

Insert Name: Nano-lantern_CaM_E104Q-2G

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: JN859496 The minor discrepancies between the QC and depositor sequence have no functional consequence.

Plasmid Name: Nano-lantern(Ca²⁺)_600/pcDNA3

Relevant Mutation: S257G in Rluc8

Record Creation Time: 20220422T222305+0000

Record Last Update: 20260815T081623+0000

Ratings and Alerts

No rating or validation information has been found for Nano-lantern(Ca²⁺)_600/pcDNA3.

No alerts have been found for Nano-lantern(Ca²⁺)_600/pcDNA3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Halbers LP, et al. (2026) Expanded applications of bioluminescence microscopy with phasor analysis. Cell reports methods, 6(4), 101344.

Takahashi TM, et al. (2022) Optogenetic induction of hibernation-like state with modified human Opsin4 in mice. Cell reports methods, 2(11), 100336.

Arai Y, et al. (2014) Real-time chemiluminescence imaging using nano-lantern probes. Current protocols in chemical biology, 6(4), 221.