

# Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 20, 2026

## pLEVI(408)-ColE-iLight-msfGFP

RRID:Addgene\_170268

Type: Plasmid

### Proper Citation

RRID:Addgene\_170268

### Plasmid Information

**URL:** <http://www.addgene.org/170268>

**Proper Citation:** RRID:Addgene\_170268

**Insert Name:** iLight

**Organism:** Synthetic

**Bacterial Resistance:** Spectinomycin

**Defining Citation:** [PMID:34162879](#)

**Vector Backbone Description:** Backbone Marker:Y. Yang lab (East China University of Science and Technology, China), <https://pubmed.ncbi.nlm.nih.gov/27311594/>; Backbone Size:5347; Vector Backbone:pLEVI(408)-ColE; Vector Types:Bacterial Expression; Bacterial Resistance:Spectinomycin

**Plasmid Name:** pLEVI(408)-ColE-iLight-msfGFP

**Relevant Mutation:** To design iLight for expression in bacteria, a full-length bacterial phytochrome IsPadC from *Idiomarina* sp. A28L was used as an original template. First, diguanylyl cyclase effector in IsPadC was removed, then following mutations were introduced: I68F, H80Q, A86T, R90S S242C, E274K, R295H I360V, and L464V.

**Record Creation Time:** 20220422T221952+0000

**Record Last Update:** 20260815T081006+0000

### Ratings and Alerts

No rating or validation information has been found for pLEVI(408)-ColE-iLight-msfGFP.

No alerts have been found for pLEVI(408)-ColE-iLight-msfGFP.

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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.