

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 5, 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: 20260905T075156+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.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.