

# Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

## pBAD/His-D-iLight

RRID:Addgene\_170270

Type: Plasmid

### Proper Citation

RRID:Addgene\_170270

### Plasmid Information

**URL:** <http://www.addgene.org/170270>

**Proper Citation:** RRID:Addgene\_170270

**Insert Name:** iLight

**Organism:** *Idiomarina* sp. A28L

**Bacterial Resistance:** Ampicillin

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

**Vector Backbone Description:** Backbone Marker:Life Technologies-Invitrogen (partially modified); Backbone Size:3999; Vector Backbone:Modified pBAD/His-B; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

**Comments:** 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.

**Plasmid Name:** pBAD/His-D-iLight

**Relevant Mutation:** See Comments

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

**Record Last Update:** 20260725T074236+0000

### Ratings and Alerts

No rating or validation information has been found for pBAD/His-D-iLight.

No alerts have been found for pBAD/His-D-iLight.

---

## Data and Source Information

**Source:** [Addgene](#)

---

## Usage and Citation Metrics

We have not found any literature mentions for this resource.