

Resource Summary Report

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

pCDNA3-LOV-VP16

RRID:Addgene_42499

Type: Plasmid

Proper Citation

RRID:Addgene_42499

Plasmid Information

URL: <http://www.addgene.org/42499>

Proper Citation: RRID:Addgene_42499

Insert Name: FKF1 (N-LOV, G128D mutant) fused with VP16

Organism: Arabidopsis thaliana

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19801976](#)

Vector Backbone Description: Backbone Marker:Invitrogene; Backbone Size:5300; Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCDNA3-LOV-VP16

Relevant Mutation: G128D 1-168aa

Record Creation Time: 20220422T222219+0000

Record Last Update: 20260829T080524+0000

Ratings and Alerts

No rating or validation information has been found for pCDNA3-LOV-VP16.

No alerts have been found for pCDNA3-LOV-VP16.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Lee EA, et al. (2022) In situ microenvironment remodeling using a dual-responsive system: photodegradable hydrogels and gene activation by visible light. *Biomaterials science*, 10(14), 3981.

Chen X, et al. (2022) pH sensing controls tissue inflammation by modulating cellular metabolism and endo-lysosomal function of immune cells. *Nature immunology*, 23(7), 1063.

Gao Y, et al. (2016) Complex transcriptional modulation with orthogonal and inducible dCas9 regulators. *Nature methods*, 13(12), 1043.

Polstein LR, et al. (2014) Light-inducible gene regulation with engineered zinc finger proteins. *Methods in molecular biology* (Clifton, N.J.), 1148, 89.