

Resource Summary Report

Generated by [NIF](#) on Aug 4, 2026

pcDNA3.1/VChR1-EYFP

RRID:Addgene_20955

Type: Plasmid

Proper Citation

RRID:Addgene_20955

Plasmid Information

URL: <http://www.addgene.org/20955>

Proper Citation: RRID:Addgene_20955

Insert Name: volvox channelrhodopsin-1

Organism: V. carteri

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18432196](#)

Vector Backbone Description: Backbone Size:5545; Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3.1/VChR1-EYFP

Record Creation Time: 20220422T222053+0000

Record Last Update: 20260801T081011+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1/VChR1-EYFP.

No alerts have been found for pcDNA3.1/VChR1-EYFP.

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 [NIF](#) .

Mei Q, et al. (2019) Manipulating energy migration within single lanthanide activator for switchable upconversion emissions towards bidirectional photoactivation. Nature communications, 10(1), 4416.

Berglund K, et al. (2016) Luminopsins integrate opto- and chemogenetics by using physical and biological light sources for opsin activation. Proceedings of the National Academy of Sciences of the United States of America, 113(3), E358.

Rao F, et al. (2015) Inositol pyrophosphates promote tumor growth and metastasis by antagonizing liver kinase B1. Proceedings of the National Academy of Sciences of the United States of America, 112(6), 1773.