

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

[pcDNA-ZifCY2](#)

RRID:Addgene_36316

Type: Plasmid

Proper Citation

RRID:Addgene_36316

Plasmid Information

URL: <http://www.addgene.org/36316>

Proper Citation: RRID:Addgene_36316

Insert Name: ZifCY2 genetically encoded Zn(II) sensor

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19363034](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5500; Vector Backbone:pcDNA3.1(+); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: First generation genetically encoded, ratiometric, fluorescent biosensor. Zn(II)-binding domain derived from mammalian Zif268. ZifCY2 is a variant of ZifCY1. The two cysteines (amino acids 237 and 242) in the Zn(II)-binding domain of ZifCY1 are mutated to histidines in ZifCY2.

Plasmid Name: pcDNA-ZifCY2

Relevant Mutation: see comment

Record Creation Time: 20220422T222154+0000

Record Last Update: 20260815T081409+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA-ZifCY2.

No alerts have been found for pcDNA-ZifCY2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.