

Resource Summary Report

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

pcDNA-mito-ZifCY1

RRID:Addgene_36317

Type: Plasmid

Proper Citation

RRID:Addgene_36317

Plasmid Information

URL: <http://www.addgene.org/36317>

Proper Citation: RRID:Addgene_36317

Insert Name: mito-ZifCY1 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. mito-ZifCY1 contains 4 tandem repeats of the first 29 aa of human cox subunit 8a (MSVLTPLLLRLTGSARRLPVPRAKIHSL). HindIII restriction sites are at the 5' and 3' ends of the mitochondrial targeting sequence.

Plasmid Name: pcDNA-mito-ZifCY1

Record Creation Time: 20220422T222154+0000

Record Last Update: 20260815T081407+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA-mito-ZifCY1.

No alerts have been found for pcDNA-mito-ZifCY1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.