

Resource Summary Report

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

pcDNA-ER-ZapCY1

RRID:Addgene_36321

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/36321>

Proper Citation: RRID:Addgene_36321

Insert Name: ER-ZapCY1 high affinity Zn(II) sensor

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21502528](#)

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

Comments: Second generation genetically encoded, ratiometric, fluorescent biosensor. Zn(II)-binding domain derived from the first 2 zinc fingers of Zap 1 from *Saccharomyces cerevisiae*. Contains truncated CFP and Citrine fluorescent proteins. Targeted to ER: contains C-terminal KDEL

Plasmid Name: pcDNA-ER-ZapCY1

Record Creation Time: 20220422T222154+0000

Record Last Update: 20260815T081407+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA-ER-ZapCY1.

No alerts have been found for pcDNA-ER-ZapCY1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.