

# Resource Summary Report

Generated by [dkNET](#) on Aug 20, 2026

## pcDNA-NES-ZapCmR2

RRID:Addgene\_59015

Type: Plasmid

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### Proper Citation

RRID:Addgene\_59015

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### Plasmid Information

**URL:** <http://www.addgene.org/59015>

**Proper Citation:** RRID:Addgene\_59015

**Insert Name:** NES-ZapCmR2 genetically encoded cytosolic Zn(II) sensor

**Organism:** Synthetic

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:23173058](#)

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

**Comments:** Genetically encoded, ratiometric, fluorescent biosensor. Contains nuclear exclusion signal sequence at N-terminus. Zn(II)-binding domain derived from the first 2 zinc fingers of Zap 1 from *Saccharomyces cerevisiae*. Contains Clover and mRuby fluorescent proteins. The Zn(II) binding domain of ZapCmR2 is derived from ZapCmR1.1. The first cysteine in the second zinc finger is mutated to histidine.

**Plasmid Name:** pcDNA-NES-ZapCmR2

**Relevant Mutation:** See comment

**Record Creation Time:** 20220422T222340+0000

**Record Last Update:** 20260815T081720+0000

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### Ratings and Alerts

No rating or validation information has been found for pcDNA-NES-ZapCmR2.

No alerts have been found for pcDNA-NES-ZapCmR2.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.