

# Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

## CACNA1F\_R (OZ508)

RRID:Addgene\_27183

Type: Plasmid

---

### Proper Citation

RRID:Addgene\_27183

---

### Plasmid Information

**URL:** <http://www.addgene.org/27183>

**Proper Citation:** RRID:Addgene\_27183

**Insert Name:** Zinc finger array targeting cacna1f

**Organism:** Danio rerio

**Bacterial Resistance:** Kanamycin

**Defining Citation:** [PMID:18657511](#)

**Vector Backbone Description:** Backbone Size:5493; Vector Backbone:MG414; Vector Types:Zebrafish Targeting; Bacterial Resistance:Kanamycin

**Comments:** This plasmid encodes a zinc finger array targeting half of a target sequence in the zebrafish gene CACNA1F (see below). Please note that this plasmid does NOT contain the CACNA1F sequence. Users must order the complementary plasmid CACNA1F\_L (OZ507) [Addgene plasmid 26957] in order to create a zinc finger nuclease (ZFN) pair to introduce targeted mutations into this specific zebrafish gene. Users will also need to clone the zinc finger (ZF) insert of this plasmid into a zinc finger nuclease (ZFN) vector to express a FOKI fusion product. Examples of possible ZFN expression vectors that can be used are: pST1374 (Addgene plasmid 13426), pMLM290 (Addgene plasmid 21872), pMLM292 (Addgene plasmid 21873), pMLM800 (Addgene plasmid 27202) and pMLM802 (Addgene plasmid 27203). This zinc finger array was tested for binding activity to the sequence 5'-TAAGAAGAG-3' in a bacterial two hybrid assay, and resulted in 4.21 fold activation. However, this array has not yet been tested for activity as a zinc finger nuclease (i.e. for its ability to induce mutations at the intended locus). Scientists using this zinc finger array in a publication should notify [zebrafishzfs@zincfingers.org](mailto:zebrafishzfs@zincfingers.org) and acknowledge NIH grant number R01 GM088040 in the publication. Other Articles: "Oligomerized pool engineering (OPEN): an 'open-source' protocol for making customized zinc-finger arrays." Maeder ML et al. (Nat Protoc. 2009 Sept 17. 4(10):1471-1501. Pubmed ID: 19798082 "Targeted mutagenesis in zebrafish using customized zinc-finger

nucleases." Foley JE et al. (Nat Protoc. 2009 Dec 3. 4(12):1855-1867. Pubmed ID: 20010934

**Plasmid Name:** CACNA1F\_R (OZ508)

**Record Creation Time:** 20220422T222122+0000

**Record Last Update:** 20260815T081300+0000

---

## Ratings and Alerts

No rating or validation information has been found for CACNA1F\_R (OZ508).

No alerts have been found for CACNA1F\_R (OZ508).

---

## Data and Source Information

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

---

## Usage and Citation Metrics

We have not found any literature mentions for this resource.