

# Resource Summary Report

Generated by [dkNET](#) on Aug 17, 2026

## pcDNA 3.1(-) VSFP3.1

RRID:Addgene\_18951

Type: Plasmid

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### Proper Citation

RRID:Addgene\_18951

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### Plasmid Information

**URL:** <http://www.addgene.org/18951>

**Proper Citation:** RRID:Addgene\_18951

**Insert Name:** VSFP3.1

**Organism:** Ciona intestinalis

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:18575613](#)

**Vector Backbone Description:** Backbone Marker:Invitrogen; Backbone Size:5358; Vector Backbone:pcDNA3.1(-); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Comments:** As reported in the accompanying publication (Lundby et al., PLoS ONE, 2008 Jun 25;3(6)), the R217Q mutation has been intently introduced in the S4 domain of Ci-VSP to shift the activation curve of the sensor into the physiological range of neuronal membrane potential.

**Plasmid Name:** pcDNA 3.1(-) VSFP3.1

**Record Creation Time:** 20220422T222043+0000

**Record Last Update:** 20260815T081140+0000

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### Ratings and Alerts

No rating or validation information has been found for pcDNA 3.1(-) VSFP3.1.

No alerts have been found for pcDNA 3.1(-) VSFP3.1.

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### Data and Source Information

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

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [dkNET](#) .

Lazar J, et al. (2011) Two-photon polarization microscopy reveals protein structure and function. Nature methods, 8(8), 684.