

# Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

## CaV2.1 (pcDNA6)

RRID:Addgene\_26578

Type: Plasmid

### Proper Citation

RRID:Addgene\_26578

### Plasmid Information

**URL:** <http://www.addgene.org/26578>

**Proper Citation:** RRID:Addgene\_26578

**Insert Name:** Cacna1a

**Organism:** Mus musculus

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:18001290](#)

**Vector Backbone Description:** Backbone Marker:Invitrogen; Backbone Size:5100; Vector Backbone:pcDNA6/V5-HisA; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Comments:** The fragment was amplified from mouse brain. The GenBank sequence is AY714490.

**Plasmid Name:** CaV2.1 (pcDNA6)

**Record Creation Time:** 20220422T222119+0000

**Record Last Update:** 20260725T074509+0000

### Ratings and Alerts

No rating or validation information has been found for CaV2.1 (pcDNA6).

No alerts have been found for CaV2.1 (pcDNA6).

### Data and Source Information

Source: [Addgene](#)

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

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

He LS, et al. (2023) Molecular tuning of sea anemone stinging. eLife, 12.

He LS, et al. (2023) Molecular tuning of sea anemone stinging. bioRxiv : the preprint server for biology.

Ferrante D, et al. (2021) PRRT2 modulates presynaptic Ca<sup>2+</sup> influx by interacting with P/Q-type channels. Cell reports, 35(11), 109248.

Scheuer R, et al. (2020) Protein Kinase CK2 Controls CaV2.1-Dependent Calcium Currents and Insulin Release in Pancreatic  $\beta$ -Cells. International journal of molecular sciences, 21(13).

Hahn S, et al. (2020) N-benzhydryl quinuclidine compounds are a potent and Src kinase-independent inhibitor of NALCN channels. British journal of pharmacology, 177(16), 3795.

Weir K, et al. (2020) A molecular filter for the cnidarian stinging response. eLife, 9.

Jiang X, et al. (2019) Both gain-of-function and loss-of-function de novo CACNA1A mutations cause severe developmental epileptic encephalopathies in the spectrum of Lennox-Gastaut syndrome. Epilepsia, 60(9), 1881.

Royer L, et al. (2018) The Ras-like GTPase Rem2 is a potent inhibitor of calcium/calmodulin-dependent kinase II activity. The Journal of biological chemistry, 293(38), 14798.