

Resource Summary Report

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

Cav2.2e[?a10, ?18a, ?24a, 31a, 37a, 46]

RRID:Addgene_26569

Type: Plasmid

Proper Citation

RRID:Addgene_26569

Plasmid Information

URL: <http://www.addgene.org/26569>

Proper Citation: RRID:Addgene_26569

Insert Name: calcium channel alpha-1B subunit

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:14715140](#)

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

Comments: Isolated from superior cervical ganglia. For more information about this plasmid:

<http://neuroscience.brown.edu/LipscombeLab/homepage/otherpages/clonespage/clonespage1.htm>

Also see: GENBANK AF222337

Plasmid Name: Cav2.2e[?a10, ?18a, ?24a, 31a, 37a, 46]

Relevant Mutation: Deletion of exons a10, 18a, and 24a. Contains exons 31a, 37a, and 46.

Record Creation Time: 20220422T222119+0000

Record Last Update: 20260815T081254+0000

Ratings and Alerts

No rating or validation information has been found for Cav2.2e[?a10, ?18a, ?24a, 31a, 37a, 46].

No alerts have been found for Cav2.2e[?a10, ?18a, ?24a, 31a, 37a, 46].

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Castro-Junior C, et al. (2023) ?-Phonetoxins inhibit voltage-gated calcium CaV2.2 ion channel splice isoforms of dorsal root ganglia. bioRxiv : the preprint server for biology.

Bunda A, et al. (2019) Cacna1b alternative splicing impacts excitatory neurotransmission and is linked to behavioral responses to aversive stimuli. Molecular brain, 12(1), 81.

Yu S, et al. (2019) TAT-Modified ?-Conotoxin MVIIA for Crossing the Blood-Brain Barrier. Marine drugs, 17(5).

Scott MB, et al. (2017) CaV2 channel subtype expression in rat sympathetic neurons is selectively regulated by ?? subunits. Channels (Austin, Tex.), 11(6), 555.