

Resource Summary Report

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

CaV1.3e[8a,11,31b,?32,?42a] mut

RRID:Addgene_26577

Type: Plasmid

Proper Citation

RRID:Addgene_26577

Plasmid Information

URL: <http://www.addgene.org/26577>

Proper Citation: RRID:Addgene_26577

Insert Name: CACNA1D

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11487617](#)

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>

Plasmid Name: CaV1.3e[8a,11,31b,?32,?42a] mut

Relevant Mutation: Contains exons 8a, 11, and 31b.Exons 32 and 42a are deleted. Exon 42a was replaced by exons 42 & 49. nt 6224 (GCC->GTC) [Ala->Val]; nt 3310 (GTG->GCG) [Val->Ala]; nt 731(TCA->GGA) [Ser->Gly].

Record Creation Time: 20220422T222119+0000

Record Last Update: 20260815T081254+0000

Ratings and Alerts

No rating or validation information has been found for CaV1.3e[8a,11,31b,?32,?42a] mut.

No alerts have been found for CaV1.3e[8a,11,31b,?32,?42a] mut.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Abderemane-Ali F, et al. (2019) A Selectivity Filter Gate Controls Voltage-Gated Calcium Channel Calcium-Dependent Inactivation. *Neuron*, 101(6), 1134.

Moreno CM, et al. (2016) Ca(2+) entry into neurons is facilitated by cooperative gating of clustered CaV1.3 channels. *eLife*, 5.