

# Resource Summary Report

Generated by [RRID](#) on Aug 7, 2026

## B6J.129P2(Cg)-Cacna1e<sup>tm1.1Tsch</sup>/Mmjax

RRID:MMRRC\_050523-JAX

Type: Organism

### Proper Citation

RRID:MMRRC\_050523-JAX

### Organism Information

**URL:** [https://www.mmrrc.org/catalog/sds.php?mmrrc\\_id=50523](https://www.mmrrc.org/catalog/sds.php?mmrrc_id=50523)

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**Description:** Mus musculus with name B6J.129P2(Cg)-Cacna1e<sup>tm1.1Tsch</sup>/Mmjax from MMRRC.

**Species:** Mus musculus

**Notes:** Research areas: Cardiovascular, Diabetes, Neurobiology, Reproduction, Sensorineural; Mutation Type: Targeted Mutation ; Collection:

**Phenotype:** increased body weight [MP:0001260]| hyperglycemia [MP:0001559]| decreased circulating glucagon level [MP:0002696]| decreased glucagon secretion [MP:0002711]| decreased insulin secretion [MP:0003059]| abnormal pancreatic beta cell physiology [MP:0003562]| abnormal glucagon secretion [MP:0003565]| impaired glucose tolerance [MP:0005293]| increased circulating glucose level [MP:0005559]| decreased physiological sensitivity to xenobiotic [MP:0008874]| decreased pancreatic alpha cell number [MP:0009177]

**Affected Gene:** Cacna1e

**Catalog Number:** 050523-JAX

**Background:** Targeted Mutation

**Database:** Mutant Mouse Resource and Research Center (MMRRC)

**Database Abbreviation:** MMRRC

**Source References:** [PMID:11923483](#)

**Alternate IDs:** MMRRC\_50523-JAX, MMRRC\_050523, MMRRC\_5523

**Organism Name:** B6J.129P2(Cg)-*Cacna1e*<sup>tm1.1Tsch</sup>/Mmjax

**Record Creation Time:** 20230308T055312+0000

**Record Last Update:** 20260801T124745+0000

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## Ratings and Alerts

No rating or validation information has been found for B6J.129P2(Cg)-*Cacna1e*<sup>tm1.1Tsch</sup>/Mmjax.

No alerts have been found for B6J.129P2(Cg)-*Cacna1e*<sup>tm1.1Tsch</sup>/Mmjax.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Mutant Mouse Resource and Research Center (MMRRC)

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## Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Neumaier F, et al. (2021) Retinal Vessel Responses to Flicker Stimulation Are Impaired in Cav2.3-Deficient Mice-An in-vivo Evaluation Using Retinal Vessel Analysis (RVA). Frontiers in neurology, 12, 659890.

Alpdogan S, et al. (2020) Non-Mendelian inheritance during inbreeding of Cav3.2 and Cav2.3 deficient mice. Scientific reports, 10(1), 15993.

L??ke JN, et al. (2020) Submicromolar copper (II) ions stimulate transretinal signaling in the isolated retina from wild type but not from Cav2.3-deficient mice. BMC ophthalmology, 20(1), 182.