

Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

129S1;129S6-Scn1a^{tm1Kea}/Mmjax

RRID:MMRRC_037107-JAX

Type: Organism

Proper Citation

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Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=37107

Proper Citation: RRID:MMRRC_037107-JAX

Description: Mus musculus with name 129S1;129S6-Scn1a^{tm1Kea}/Mmjax from MMRRC.

Species: Mus musculus

Notes: Research areas: Models for Human Disease, Neurobiology; Mutation Type: Targeted Mutation ; Collection:

Phenotype: seizures [MP:0002064] premature death [MP:0002083] no abnormal phenotype detected [MP:0002169]

Affected Gene: Scn1a

Catalog Number: 037107-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:24152123](#), [PMID:24434335](#)

Alternate IDs: MMRRC_37107-JAX, MMRRC_037107, MMRRC_3717

Organism Name: 129S1;129S6-Scn1a^{tm1Kea}/Mmjax

Record Creation Time: 20230308T055149+0000

Record Last Update: 20260801T124402+0000

Ratings and Alerts

No rating or validation information has been found for 129S1;129S6-*Scn1a*^{tm1Kea}/Mmjax.

No alerts have been found for 129S1;129S6-*Scn1a*^{tm1Kea}/Mmjax.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Sinnott RW, et al. (2025) Engineering a human-based translational activator for targeted protein expression restoration. *bioRxiv : the preprint server for biology*.

Hill SF, et al. (2025) Interneurons exhibit attenuated ectopic action potential firing in a severe neurodevelopmental disorder. *Journal of neurophysiology*, 133(6), 1692.

Zhu L, et al. (2025) Medial septum parvalbumin-expressing inhibitory neurons are impaired in a mouse model of Dravet syndrome. *Epilepsia*, 66(10), 4053.

Vermudez SAD, et al. (2025) Sex differences in seizure presentation in a Dravet syndrome mouse model. *Neuroreport*, 36(8), 383.

Reed SL, et al. (2025) Nanoparticle-encapsulated neuropeptide Y provides robust seizure protection in SCN1A-derived epilepsy. *Epilepsia*.

Hawkins NA, et al. (2024) Fine mapping and candidate gene analysis of Dravet syndrome modifier loci on mouse chromosomes 7 and 8. *Mammalian genome : official journal of the International Mammalian Genome Society*, 35(3), 334.

Guo J, et al. (2024) Enhancing the action of serotonin by three different mechanisms prevents spontaneous seizure-induced mortality in Dravet mice. *Epilepsia*, 65(6), 1791.

Hawkins NA, et al. (2024) Fine Mapping and Candidate Gene Analysis of Dravet Syndrome Modifier Loci on Mouse Chromosomes 7 and 8. *bioRxiv : the preprint server for biology*.

Liebergall SR, et al. (2024) Ndnf Interneuron Excitability Is Spared in a Mouse Model of Dravet Syndrome. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(17).

Zhu L, et al. (2024) Medial septum parvalbumin-expressing inhibitory neurons are impaired in a mouse model of Dravet Syndrome. *bioRxiv : the preprint server for biology*.

Hameed MQ, et al. (2023) Depressed glutamate transporter 1 expression in a mouse model of Dravet syndrome. *Annals of clinical and translational neurology*, 10(9), 1695.

Roberts NS, et al. (2023) Anti-seizure efficacy of perampanel in two established rodent models of early-life epilepsy. *Epilepsy & behavior : E&B*, 143, 109194.

Kravchenko JA, et al. (2023) Optogenetic and chemogenetic manipulation of seizure threshold in mice. *STAR protocols*, 4(1), 102019.

Goff KM, et al. (2023) VIP interneuron impairment promotes in?vivo circuit dysfunction and autism-related behaviors in Dravet syndrome. *Cell reports*, 42(6), 112628.

Drouillas B, et al. (2023) Persistent Nav1.1 and Nav1.6 currents drive spinal locomotor functions through nonlinear dynamics. *Cell reports*, 42(9), 113085.

Mavashov A, et al. (2023) Heat-induced seizures, premature mortality, and hyperactivity in a novel Scn1a nonsense model for Dravet syndrome. *Frontiers in cellular neuroscience*, 17, 1149391.

Kearney JA, et al. (2022) Fine mapping and candidate gene analysis of a dravet syndrome modifier locus on mouse chromosome 11. *Mammalian genome : official journal of the International Mammalian Genome Society*, 33(4), 565.

Mattis J, et al. (2022) Corticohippocampal circuit dysfunction in a mouse model of Dravet syndrome. *eLife*, 11.

Kaneko K, et al. (2022) Developmentally regulated impairment of parvalbumin interneuron synaptic transmission in an experimental model of Dravet syndrome. *Cell reports*, 38(13), 110580.

Somarowthu A, et al. (2021) Two-photon calcium imaging of seizures in awake, head-fixed mice. *Cell calcium*, 96, 102380.