Resource Summary Report

Generated by RRID on Aug 3, 2026

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

RRID:MMRRC_037107-JAX
Type: Organism

Proper Citation

RRID:MMRRC_037107-JAX

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.

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

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.

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.