

# Resource Summary Report

Generated by [ASWG](#) on Aug 21, 2026

## 129S1/Sv-Hprt1<sup>tm1(CAG-cre)</sup>Mnn/J

RRID:IMSR\_JAX:004302

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:004302

### Organism Information

**URL:** <https://www.jax.org/strain/004302>

**Proper Citation:** RRID:IMSR\_JAX:004302

**Description:** Mus musculus with name 129S1/Sv-Hprt1<sup>tm1(CAG-cre)</sup>Mnn/J from IMSR.

**Species:** Mus musculus

**Synonyms:** 129S1-Hprt1/J. 129S1-Hprt. 129S1/Sv-Hprt/J. 129S1/Sv-Hprt/J. 129S1-Hprt/J

**Notes:** gene symbol note: |hypoxanthine phosphoribosyltransferase 1; mutant strain: |Hprt1

**Affected Gene:** |hypoxanthine phosphoribosyltransferase 1

**Genomic Alteration:** targeted mutation 1; Jeffrey R Mann

**Catalog Number:** JAX:004302

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** 129S1/Sv-Hprt1<sup>tm1(CAG-cre)</sup>Mnn/J

**Record Creation Time:** 20250513T053644+0000

**Record Last Update:** 20260815T050555+0000

### Ratings and Alerts

No rating or validation information has been found for 129S1/Sv-Hprt1<sup>tm1(CAG-cre)</sup>Mnn/J.

No alerts have been found for 129S1/Sv-Hprt1<sup>tm1(CAG-cre)</sup>Mnn/J.

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## Data and Source Information

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

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Cichy A, et al. (2026) A microbiome-derived olfactory signal regulates inter-male aggression and social dominance in mice. *Current biology* : CB, 36(8), 1946.

Srivastava R, et al. (2025) Redefined Strategies to generate Conditional miR-141/200c miRNA cluster Knockout mice to eliminate confounding neo cassettes. *bioRxiv* : the preprint server for biology.

Croce KR, et al. (2025) A rare genetic variant confers resistance to neurodegeneration across multiple neurological disorders by augmenting selective autophagy. *Neuron*.

Mehlmann LM, et al. (2024) Generation and Characterization of a TRIM21 Overexpressing Mouse Line. *Genesis (New York, N.Y. : 2000)*, 62(5), e23616.

Gamiotea-Turro D, et al. (2023) Transcriptomic analysis reveals novel age-independent immunomodulatory proteins as a mode of cerebroprotection in P2X4 receptor knockout mice after ischemic stroke. *Purinergic signalling*, 19(3), 489.

Yamamoto M, et al. (2022) Overexpression of Wild-Type ACVR1 in Fibrodysplasia Ossificans Progressiva Mice Rescues Perinatal Lethality and Inhibits Heterotopic Ossification. *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*, 37(11), 2077.

Sefton EM, et al. (2022) Fibroblast-derived Hgf controls recruitment and expansion of muscle during morphogenesis of the mammalian diaphragm. *eLife*, 11.

Willemin A, et al. (2021) Induction of a chromatin boundary in vivo upon insertion of a TAD border. *PLoS genetics*, 17(7), e1009691.

Miljanovic N, et al. (2021) The impact of Scn1a deficiency and ketogenic diet on the intestinal microbiome: A study in a genetic Dravet mouse model. *Epilepsy research*, 178, 106826.

Miljanovic N, et al. (2021) Proteomic signature of the Dravet syndrome in the genetic Scn1a-A1783V mouse model. *Neurobiology of disease*, 157, 105423.

Takeo YH, et al. (2021) GluD2- and Cbln1-mediated competitive interactions shape the dendritic arbors of cerebellar Purkinje cells. *Neuron*, 109(4), 629.

Contreras X, et al. (2021) A genome-wide library of MADM mice for single-cell genetic mosaic analysis. *Cell reports*, 35(12), 109274.

Amberg N, et al. (2021) Genetic mosaic dissection of candidate genes in mice using mosaic analysis with double markers. *STAR protocols*, 2(4), 100939.

Defoe DM, et al. (2020) A non-canonical role for p27Kip1 in restricting proliferation of corneal endothelial cells during development. *PloS one*, 15(1), e0226725.

Lieberman OJ, et al. (2020) Cell-type-specific regulation of neuronal intrinsic excitability by macroautophagy. *eLife*, 9.

Bereshchenko O, et al. (2019) Deficiency and haploinsufficiency of histone macroH2A1.1 in mice recapitulate hematopoietic defects of human myelodysplastic syndrome. *Clinical epigenetics*, 11(1), 121.

Zhou Y, et al. (2019) Selective deletion of glutamine synthetase in the mouse cerebral cortex induces glial dysfunction and vascular impairment that precede epilepsy and neurodegeneration. *Neurochemistry international*, 123, 22.

McGann JC, et al. (2018) Neuronal activity induces glutathione metabolism gene expression in astrocytes. *Glia*, 66(9), 2024.

Beattie R, et al. (2017) Mosaic Analysis with Double Markers Reveals Distinct Sequential Functions of Lgl1 in Neural Stem Cells. *Neuron*, 94(3), 517.

Yeh SY, et al. (2017) Respiratory Network Stability and Modulatory Response to Substance P Require Nalcn. *Neuron*, 94(2), 294.