

Resource Summary Report

Generated by [NIF](#) on Aug 30, 2026

B6.129S1-Nt5e^{tm1Lft}/J

RRID:IMSR_JAX:018986

Type: Organism

Proper Citation

RRID:IMSR_JAX:018986

Organism Information

URL: <https://www.jax.org/strain/018986>

Proper Citation: RRID:IMSR_JAX:018986

Description: Mus musculus with name B6.129S1-Nt5e^{tm1Lft}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: 5' nucleotidase; ecto; mutant strain|congenic strain: Nt5e

Affected Gene: 5' nucleotidase; ecto

Genomic Alteration: targeted mutation 1; Linda F Thompson

Catalog Number: JAX:018986

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S1-Nt5e^{tm1Lft}/J

Record Creation Time: 20250513T053739+0000

Record Last Update: 20260829T045041+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S1-Nt5e^{tm1Lft}/J.

No alerts have been found for B6.129S1-Nt5e^{tm1Lft}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Luan P, et al. (2026) A reciprocal glial circuit calibrates injury information and governs the tissue response balance. *Neuron*.

McClellan BL, et al. (2025) Reprogramming the Immune Suppressive Tumor Microenvironment in Glioma Enhances the Efficacy of Immune-Mediated Gene Therapy. *bioRxiv : the preprint server for biology*.

Bayazitov IT, et al. (2024) Sound-evoked adenosine release in cooperation with neuromodulatory circuits permits auditory cortical plasticity and perceptual learning. *Cell reports*, 43(2), 113758.

Peng W, et al. (2023) Adenosine-independent regulation of the sleep-wake cycle by astrocyte activity. *Cell discovery*, 9(1), 16.

Allard D, et al. (2023) The CD73 immune checkpoint promotes tumor cell metabolic fitness. *eLife*, 12.

Kelestemur T, et al. (2023) Adenosine metabolized from extracellular ATP ameliorates organ injury by triggering A2BR signaling. *Respiratory research*, 24(1), 186.

Cuevas RA, et al. (2023) Ecto-5'-nucleotidase (Nt5e/CD73)-mediated adenosine signaling attenuates TGF β -2 induced elastin and cellular contraction. *American journal of physiology. Cell physiology*, 324(2), C327.

Rosin DL, et al. (2022) Human Recombinant Alkaline Phosphatase (Ilofotase Alfa) Protects Against Kidney Ischemia-Reperfusion Injury in Mice and Rats Through Adenosine Receptors. *Frontiers in medicine*, 9, 931293.

Piovesan D, et al. (2022) Targeting CD73 with AB680 (Quemliclustat), a Novel and Potent Small-Molecule CD73 Inhibitor, Restores Immune Functionality and Facilitates Antitumor Immunity. *Molecular cancer therapeutics*, 21(6), 948.

Thapa A, et al. (2022) Extracellular Adenosine (eAdo) - A2B Receptor Axis Inhibits in Nlrp3 Inflammasome-dependent Manner Trafficking of Hematopoietic Stem/progenitor Cells. *Stem cell reviews and reports*, 18(8), 2893.

Dai H, et al. (2022) Treg suppression of immunity within inflamed allogeneic grafts. *JCI insight*, 7(16).

Briceño P, et al. (2021) CD73 Ectonucleotidase Restrains CD8+ T Cell Metabolic Fitness and Anti-tumoral Activity. *Frontiers in cell and developmental biology*, 9, 638037.

Roseblatt MV, et al. (2021) Ecto-5'-Nucleotidase (CD73) Regulates the Survival of CD8+ T Cells. *Frontiers in cell and developmental biology*, 9, 647058.

Xue G, et al. (2021) Elimination of acquired resistance to PD-1 blockade via the concurrent depletion of tumour cells and immunosuppressive cells. *Nature biomedical engineering*, 5(11), 1306.

Badimon A, et al. (2020) Negative feedback control of neuronal activity by microglia. *Nature*, 586(7829), 417.

Severe N, et al. (2019) Stress-Induced Changes in Bone Marrow Stromal Cell Populations Revealed through Single-Cell Protein Expression Mapping. *Cell stem cell*, 25(4), 570.

Adamiak M, et al. (2018) Novel evidence that extracellular nucleotides and purinergic signaling induce innate immunity-mediated mobilization of hematopoietic stem/progenitor cells. *Leukemia*, 32(9), 1920.

Hirata Y, et al. (2018) CD150^{high} Bone Marrow Tregs Maintain Hematopoietic Stem Cell Quiescence and Immune Privilege via Adenosine. *Cell stem cell*, 22(3), 445.