

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

B6.129S6-Per2^{tm1Jt/J}

RRID:IMSR_JAX:006852

Type: Organism

Proper Citation

RRID:IMSR_JAX:006852

Organism Information

URL: <https://www.jax.org/strain/006852>

Proper Citation: RRID:IMSR_JAX:006852

Description: Mus musculus with name B6.129S6-Per2^{tm1Jt/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: luciferase|period circadian clock 2; mutant strain|congenic strain: luc|Per2

Affected Gene: luciferase|period circadian clock 2

Genomic Alteration: targeted mutation 1; Joseph S Takahashi

Catalog Number: JAX:006852

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S6-Per2^{tm1Jt/J}

Record Creation Time: 20250513T053659+0000

Record Last Update: 20260905T044443+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Per2^{tm1Jt/J}.

No alerts have been found for B6.129S6-Per2^{tm1Jt/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 46 mentions in open access literature.

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

Van Loh BM, et al. (2026) The Transcription Factors Six3 and Six6 in Neuromedin-S Neurons Differentially Affect Circadian Rhythms. *Journal of neuroscience research*, 104(4), e70123.

Duong TV, et al. (2026) Time-of-Day Impacts Uterine Circadian Rhythms and Response to Oxytocin: Comparison of Uterine Function in Melatonin-Deficient C57BL/6 Versus Melatonin Proficient CBA/B6 Hybrid Mice. *Journal of pineal research*, 78(2), e70112.

Ferrari M, et al. (2026) A High-Throughput Live Imaging Platform to Investigate Circuit-Dependent Regulation of Circadian Rhythms in Brain Tissue. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(40), e75427.

Beale AD, et al. (2026) A cellular basis for the mammalian nocturnal-diurnal switch. *Science* (New York, N.Y.), 391(6788), eady2822.

Smyllie NJ, et al. (2025) Quantitative measures of clock protein dynamics in the mouse suprachiasmatic nucleus extends the circadian time-keeping model. *The EMBO journal*, 44(13), 3614.

Andersen PAK, et al. (2025) Circadian synchronization differentially modifies cytokine-mediated transcriptomic remodeling and cell death in INS-1 cells and mouse islets. *iScience*, 28(5), 112431.

Díaz NM, et al. (2025) Opsin 5 mediates violet light-accelerated wound healing in mammalian corneas. *Cell reports*, 44(8), 116045.

Lu Q, et al. (2025) Microglial clock dysfunction during neuroinflammation impairs oligodendrocyte progenitor cell recruitment and disrupts neuroimmune homeostasis. *Frontiers in immunology*, 16, 1620343.

Ness N, et al. (2024) Rhythmic astrocytic GABA production synchronizes neuronal circadian timekeeping in the suprachiasmatic nucleus. *The EMBO journal*.

Very N, et al. (2024) O-GlcNAcylation controls pro-fibrotic transcriptional regulatory signaling in myofibroblasts. *Cell death & disease*, 15(6), 391.

Zhang H, et al. (2024) TDP-43 deficiency in suprachiasmatic nucleus perturbs rhythmicity of neuroactivity in prefrontal cortex. *iScience*, 27(4), 109522.

Hoekstra MMB, et al. (2024) Bmal1 integrates circadian function and temperature sensing in the suprachiasmatic nucleus. *Proceedings of the National Academy of Sciences of the United States of America*, 121(17), e2316646121.

Fame RM, et al. (2023) Defining diurnal fluctuations in mouse choroid plexus and CSF at high molecular, spatial, and temporal resolution. *Nature communications*, 14(1), 3720.

Taleb Z, et al. (2022) BMAL1 Regulates the Daily Timing of Colitis. *Frontiers in cellular and infection microbiology*, 12, 773413.

Sullivan KA, et al. (2022) Paclitaxel chemotherapy disrupts behavioral and molecular circadian clocks in mice. *Brain, behavior, and immunity*, 99, 106.

Lang V, et al. (2021) Susceptibility rhythm to bacterial endotoxin in myeloid clock-knockout mice. *eLife*, 10.

Sládek M, et al. (2021) Modulation of single cell circadian response to NMDA by diacylglycerol lipase inhibition reveals a role of endocannabinoids in light entrainment of the suprachiasmatic nucleus. *Neuropharmacology*, 185, 108455.

Ralph MR, et al. (2021) Targeted modification of the Per2 clock gene alters circadian function in mPer2luciferase (mPer2Luc) mice. *PLoS computational biology*, 17(5), e1008987.

Huang S, et al. (2021) Applying real-time monitoring of circadian oscillations in adult mouse brain slices to study communications between brain regions. *STAR protocols*, 2(2), 100416.

Kim S, et al. (2021) Light sets the brain's daily clock by regional quickening and slowing of the molecular clockworks at dawn and dusk. *eLife*, 10.