

Resource Summary Report

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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: 20260725T044412+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 42 mentions in open access literature.

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

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.

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

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.

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.

Wilcox AG, et al. (2021) Zfhx3-mediated genetic ablation of the SCN abolishes light entrainable circadian activity while sparing food anticipatory activity. *iScience*, 24(10), 103142.

Morris EL, et al. (2021) Single-cell transcriptomics of suprachiasmatic nuclei reveal a Prokineticin-driven circadian network. *The EMBO journal*, 40(20), e108614.

Hoffmann HM, et al. (2021) The transcription factors SIX3 and VAX1 are required for suprachiasmatic nucleus circadian output and fertility in female mice. *Journal of neuroscience research*, 99(10), 2625.

Chrobok L, et al. (2021) Daily coordination of orexinergic gating in the rat superior colliculus-Implications for intrinsic clock activities in the visual system. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(10), e21930.