Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 17, 2025

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: period circadian clock 2|luciferase|period circadian clock 2|luciferase; mutant strain: Per2|luc|Per2|luc

Affected Gene: period circadian clock 2|luciferase|period circadian clock 2|luciferase

Genomic Alteration: targeted mutation 1; Joseph S Takahashi

Catalog Number: JAX:006852

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:6852

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

Record Creation Time: 20230509T193252+0000

Record Last Update: 20250412T090412+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: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 38 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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

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

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

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.

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

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.

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.

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.

Ho EV, et al. (2021) Reproductive Deficits Induced by Prenatal Antimüllerian Hormone Exposure Require Androgen Receptor in Kisspeptin Cells. Endocrinology, 162(12).

Xie X, et al. (2020) Natural food intake patterns have little synchronizing effect on peripheral circadian clocks. BMC biology, 18(1), 160.

Tsang AH, et al. (2020) An adipokine feedback regulating diurnal food intake rhythms in mice. eLife, 9.

Dan H, et al. (2020) Circadian Clock Regulation of Developmental Time in the Kidney. Cell reports, 31(7), 107661.