

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 31, 2026

Tg(Per2-luc)1Jt; Fbxl21^{Psttm}/Fbxl21^{Psttm}

RRID:MGI:5484572

Type: Organism

Proper Citation

RRID:MGI:5484572

Organism Information

URL:

Proper Citation: RRID:MGI:5484572

Description: Allele Detail: Chemically induced (ENU), Transgenic This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Chemically induced (ENU), Transgenic This is a legacy resource.

Phenotype: abnormal hypothalamus physiology, abnormal fibroblast physiology

Affected Gene: Fbxl21

Genomic Alteration: Psttm, Tg(Per2-luc)1Jt

Catalog Number: 5484572

Background: involves: C57BL/6J

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:23452855](#)

Organism Name: Tg(Per2-luc)1Jt; Fbxl21^{Psttm}/Fbxl21^{Psttm}

Record Creation Time: 20240120T190120+0000

Record Last Update: 20240130T201725+0000

Ratings and Alerts

No rating or validation information has been found for Tg(Per2-luc)1Jt; Fbxl21^{Psttm}/Fbxl21^{Psttm}.

No alerts have been found for Tg(Per2-luc)1Jt; Fbxl21^{Psttm}/Fbxl21^{Psttm}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Sharma D, et al. (2025) The α 2-adrenergic receptor (Adrb2) entrains circadian gene oscillation and CD8⁺ T cell differentiation in response to virus infection. Science advances, 11(31), eady2643.

Duong TV, et al. (2024) Interaction between time-of-day and oxytocin efficacy in mice and humans with and without gestational diabetes. bioRxiv : the preprint server for biology.

Kong X, et al. (2023) Melatonin Does Not Affect the Stress-Induced Phase Shifts of Peripheral Clocks in Male Mice. Endocrinology, 165(1).

Hou T, et al. (2022) Role of sympathetic pathway in light-phase time-restricted feeding-induced blood pressure circadian rhythm alteration. Frontiers in nutrition, 9, 969345.

Zhang Z, et al. (2022) Chronic Cold Exposure Leads to Daytime Preference in the Circadian Expression of Hepatic Metabolic Genes. Frontiers in physiology, 13, 865627.

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.

Jones JR, et al. (2021) Circadian neurons in the paraventricular nucleus entrain and sustain daily rhythms in glucocorticoids. Nature communications, 12(1), 5763.

Endo T, et al. (2020) Bright light improves sleep in patients with Parkinson's disease: possible role of circadian restoration. Scientific reports, 10(1), 7982.

Stowie A, et al. (2019) A reductionist, in vitro model of environmental circadian disruption demonstrates SCN-independent and tissue-specific dysregulation of inflammatory responses. PloS one, 14(5), e0217368.

Ishimaru K, et al. (2019) The Putatively Specific Synthetic REV-ERB Agonist SR9009 Inhibits IgE- and IL-33-Mediated Mast Cell Activation Independently of the Circadian

Clock. International journal of molecular sciences, 20(24).

Izumo M, et al. (2014) Differential effects of light and feeding on circadian organization of peripheral clocks in a forebrain Bmal1 mutant. eLife, 3.