

Resource Summary Report

Generated by [NIF](#) on Aug 22, 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 12 mentions in open access literature.

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

Van-Quynh Duong T, et al. (2026) Interaction between time-of-day and oxytocin efficacy in mice and humans with and without gestational diabetes. *Molecular metabolism*, 103, 102269.

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).

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.

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.

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.

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).

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.

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