

B6.Cg-Tg(PER2*S662G)867Ljp/J

Stock No: **013700**

 Congenic, Transgenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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Donating Investigator

Louis Ptacek, University of California, San Francisco

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(PER2*S662G)867Ljp

Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

Details

Detailed Description

These transgenic mice express a S662G (serine -> glycine) amino acid mutation in the human *PER2* (period homolog 2 (Drosophila)) gene, associated with familial advanced sleep phase syndrome (FASPS). The phenotype of these mice is reported to faithfully recapitulate the condition found in humans. Animals from both founder lines 864 and 867 demonstrate a short circadian period (21.6 hours in hemizygotes and 20.7 hours in homozygotes versus 23.7 hours in wildtype controls) and an advanced sleep phase. This strain may be useful in studies of familial advanced sleep phase syndrome (FASPS) and *PER2* regulation of circadian rhythms.

Development

Expression Data

Selected References

Genetics

Tg(PER2*S662G)867Ljp

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, hemizygotes may be bred.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-Tg(PER2*S662G)867Ljp/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #013700 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

Pricing & Availability



Cryo
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(PER2*S662G)867Ljp	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(PER2*S662G)867Ljp/J Frozen Embryo	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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