

B6.Cg-Tg(BAC54)36Jt/J

Stock No: **004459** | *Clock*

 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

Dr. Joseph S. Takahashi, Univ Texas Southwestern Medical Ctr

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(BAC54)36Jt

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

V I E W P R I C E L I S T

Details

Detailed Description

Mice hemizygous for this transgene, a 140kb circular BAC 54 clone of the targeted gene, express 3-4 times more gene transcript than the wildtype. Hemizygous mice are viable, fertile, normal in size and do not display any gross physical abnormalities. Quantification of transgene copy number was estimated from Southern blot analysis. Hemizygotes exhibit a circadian period that is shorter than the wildtype. This transgene rescues the homozygous mutant *Clock* phenotype. This mutant mouse strain may be useful in studies of advanced sleep phase syndrome.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(BAC54)36Jt

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Tg\(Bac54\)36jt](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

The resulting founder animals were crossed to C57BL/6 mice, and then backcrossed to the same for 8 generations.

[Additional Breeding and Husbandry Support](#)

Citation

When using the *Clock* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004459 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(BAC54)36Jt	\$2,854.50

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account

balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Q U E S T I O N S A B O U T T E R M S O F U S E

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection





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TOMORROW'S CURES



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Yes No