

B6;129S4-Tet1^{tm1.1Jae} /J

Stock No: **017358** | Tet1 knock-out

 Targeted Mutation

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

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These *Tet1* knock-out mice may be useful in studies of embryonic cell pluripotency and development.

Donating Investigator

Rudolf Jaenisch, Whitehead Institute, Massachusetts Institute of Technology

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GENETIC OVERVIEW

Genetic Background

Generation

Tet1^{tm1.1Jae}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Tet1

tet methylcytosine dioxygenase 1

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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

Details

Detailed Description

Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA carrying exon 4 or protein) is detected by RT-PCR or Western blot analysis of embryonic stem cells homozygous for the targeted mutation. Some residual full-length transcript lacking exon 4 is detected. No truncated protein is detected by Western blot. mESC from homozygotes have a reduced level of 5-hydroxymethylcytosine (5hmC). Although homozygotes are viable, at birth, 75% of homozygotes have a smaller body size than wildtype controls. Homozygous embryos at E12.5 have fewer tail somite pairs than wildtype controls. Homozygous crosses produce very few pups.

Development

Control Suggestions

Selected References

Genetics

Tet1^{tm1.1Jae}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR: [Tet1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. Homozygous crosses produce very few pups.

[Additional Breeding and Husbandry Support](#)

Mating System

+/+ sibling x Heterozygote

Heterozygote x +/+ sibling

Citation

When using the Tet1 knock-out mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017358 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 | Heterozygous or wildtype for Tet1<tm1.1Jae> | \$2,854.50 |

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6;129S4-Tet1<tm1.1Jae>/J Frozen Embryo

\$2595.00

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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

Terms Of Use

TERMS OF USE

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ADDITIONAL USE RESTRICTIONS APPLY

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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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Rely on JAX to provide the models you need, when you need them.

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TOMORROW'S CURES



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Yes No