

FVB/N-Tg(tetO-BCR/ABL1)2Dgt/J

Stock No: **006202** | BCR-ABL1

 Coisogenic, Transgenic

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

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regulated in the appropriate tissue of bitransgenic offspring by tissue-specific promoters driving a transactivator protein (rtTA or tTA).

Donating Investigator

Daniel G. Tenen, Beth Israel Deaconess Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(tetO-BCR/ABL1)2Dgt

Allele Type

Transgenic (Inducible, Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

Hematological Research

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

Hemizygotes are viable, fertile, normal in size, and do not display any behavioral abnormalities. Transgene expression is directed by the tetracycline-responsive element (TRE; tetO). When hemizygotes are bred with another transgenic mouse expressing either reverse tetracycline-controlled transactivator protein (rtTA) or tetracycline-controlled transactivator protein (tTA) under the regulation of tissue-specific promoters, BCR-ABL1 fusion protein expression can be regulated in the appropriate tissue of the bitransgenic offspring with the tetracycline analog, doxycycline.

These mice originally were designed to be bred with transgenic mice harboring a Tal1-tTA transgene (see Stock No. [006209](#)), creating double transgenic offspring as a model for studies of the Philadelphia chromosome and inducible chronic myeloid leukemia.

When bred to a strain expressing tTA in the epithelial cells of secretory organs and skin (see Stock No. [002618](#) - Tg(MMTVtTa)1Mam), this mutant mouse strain may be useful in studies of leukemia.

When bred to a strain expressing tTA in the bone marrow hematopoietic stem cells and in common myeloid progenitors (see Stock No. [017722](#) - Tg(Tal1-tTA)19Dgt), this mutant mouse strain may be useful in studies of chronic myeloid leukemia.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(tetO-BCR/ABL1)2Dgt

⊖ Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

⊖ 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:[Tg\(tetO-BCR/ABL1\)2Dgt](#)

Standard PCR:[Tg\(tetO-BCR/ABL1\)2Dgt](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, transgenic mice are bred together or to wildtype siblings.

[Additional Breeding and Husbandry Support](#)

Citation

When using the BCR-ABL1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006202 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



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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(tetO-BCR/ABL1)2Dgt	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB/N-Tg(tetO-BCR/ABL1)2Dgt/J Frozen Embryos	\$2595.00
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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.

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TERMS OF USE

[General Terms and Conditions](#)

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

- All
- By Allele
- By Gene
- By Collection



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