

C57BL/6-*Bcr*<sup>tm1(BCR/ABL)Tsr</sup>/J

Stock No: 023520

 Coisogenic, 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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### Donating Investigator

Theodora S Ross, University of Texas Southwestern Medical Center

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## GENETIC OVERVIEW

Genetic Background

Generation

*Bcr*<sup>tm1(BCR/ABL)Tsr</sup>

**Alele Type**

**Gene Symbol**

**Gene Name**

Targeted

*Bcr*

breakpoint cluster region

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cancer 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

The BCR/ABL oncogene, associated with the t(9;22) Philadelphia chromosome in humans, is characteristic of chronic myeloid leukemia (CML).

These conditional knock-in/knockout mice constitutively express a single copy of the human BCR/ABL p210-IRES-EGFP from the endogenous mouse *Bcr* locus after the excision of a loxP-flanked Stop cassette. Heterozygous mice are born at predicted Mendelian frequency and display normal growth. Lack of expression of wildtype *Bcr* results in haploinsufficiency reflected in reduced message and protein.

Progeny derived from a cross with *Vav1-cre* (e.g. Stock No. [008610](#)) or *Mx1-cre* (e.g. Stock No. [003556](#)) mice to excise the floxed stop in hematopoietic cells develop the earliest stages of CML, but not leukemia, even when maintained for up to 1.5 years. This contrasts with previous models involving non-*Bcr* promoters and multiple copies of BCR/ABL. Compound mutant mice have normal white blood cell counts and their differentials display normal myeloid and monocytic frequencies, with only a slight trend of decreased lymphocyte frequencies over the first year of observation. White blood cells and spleen extracts in the compound mutant mice express GFP.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### *Bcr*<sup>tm1(BCR/ABL)Tsr</sup>

## Disease/Phenotype

+ Disease Terms

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+ Research Areas By Phenotype

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+ Mammalian Phenotype Terms by Genotype

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+ References

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## - 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

QPCR:[Fluorescent Proteins -- Generic GFP](#)

Probe:[Fluorescent Proteins \(Generic GFP\)](#)

Standard PCR:[Bcralternate2](#)

Standard PCR:[Generic Neo](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the C57BL/6-*Bcr<sup>tm1(BCR/ABL)Tsr</sup>*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023520 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
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Bcr<tm1(BCR/ABL)Tsr>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Bcr<tm1(BCR/ABL)Tsr>/J	\$2595.00
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### TERMS OF USE

[General Terms and Conditions](#)

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

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Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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