



# B6.Cg-Tg(Tyr-cre/ERT2)13Bos/J

Stock No: 012328 | Tyr::CreER<sup>T2</sup>

 Congenic, Transgenic



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

## Overview

### Also Known As: Tyr::CreER<sup>T2</sup>

Tyr::CreERT2 mice have expression of CreERT2 fusion protein directed by mouse tyrosinase promoter/enhancer regions. When bred with mice containing loxP-flanked sequences, tamoxifen/4-hydroxytamoxifen-inducible Cre-mediated recombination will result in deletion of the floxed sequences in the *Tyr*-expressing cells of the offspring. These Tyr::CreERT2 mice may be useful for generating conditional mutations for studying gain or loss of function and/or fate mapping in melanocytes/melanoblasts.

### Donating Investigator

Marcus Bosenberg, Yale University

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

[N11F?<sup>+</sup>N3F5](#)

(2019-10-04 00:00:00)

### [Tg\(Tyr-cre/ERT2\)13Bos](#)

Allele Type

Transgenic (Recombinase-expressing, Inducible)

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Research Tools

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

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\$278.00 Domestic price for female

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356.51 Domestic price for breeder pair

[VIEW PRICE LIST](#)

### [- Details](#)

#### [- Detailed Description](#)

Homozygous mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Cre-ERT2 fusion gene activity can be induced following tamoxifen or 4-hydroxytamoxifen administration. When Tyr::CreERT2 mice are bred with mice containing *loxP*-flanked sequences, inducible Cre-mediated recombination will result in deletion of the floxed sequences in the *Tyr*-expressing cells of the offspring. The donating investigator reports that Cre recombinase activity is observed in embryonic melanoblasts, follicular bulb melanocytes, dermal dendritic melanocytes, epidermal melanocytes of tail skin and ocular chroid cells. Recombinase expression was not observed in the other major tissues/organs tested. This mutant mouse strain may be useful in studies of melanocyte development, melanocyte stem cell function and melanomas.

#### [+ Development](#)

#### [+ Expression Data](#)

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[+ Control Suggestions](#)

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[+ Selected References](#)

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[- Genetics](#)

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[+ Tg\(Tyr-cre/ERT2\)13Bos](#)

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[- Disease/Phenotype](#)

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[+ Disease Terms](#)

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[+ Research Areas By Genotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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[- Technical Support](#)

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Standard PCR: [Tg\(Tyr-cre/ERT2\)13Bos](#)

Probe: [Generic Cre](#)

Standard PCR: [Generic Cre](#)

[Genotyping resources and troubleshooting](#)

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Breeding Considerations

While maintaining a live colony, these mice can be bred as hemizygotes or homozygotes.

[Additional Breeding and Husbandry Support](#)

### Mating System

Hemizygote x Noncarrier

### Citation

When using the Tyr::Cre<sup>ERT2</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012328 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

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[- Pricing & Availability](#)



Live mice available in varying quantities. Ask Customer Service for details.

Available

## Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Hemizygous for Tg(Tyr-cre/ERT2)13Bos	\$278.00
	Male	Hemizygous for Tg(Tyr-cre/ERT2)13Bos	\$278.00
Approx 4-8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

### Breeder Pair

SEX	GENOTYPE	PRICE
Female	Hemizygous for Tg(Tyr-cre/ERT2)13Bos	\$356.51
Male	Noncarrier	
Female	Noncarrier	\$356.51
Male	Hemizygous for Tg(Tyr-cre/ERT2)13Bos	

### Related Products and Services

Frozen Mouse Embryo	<a href="#">B6.Cg-Tg(Tyr-cre/ERT2)13Bos/J</a>	\$2595.00
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## 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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### Terms of Use

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Phone: 207-288-6470

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

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