

B6;C3-Tg(Wfs1-cre/ERT2)3Aibs/J

Stock No: **009103** | Wfs1-Tg3-CreERT2

 Transgenic

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

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for studying gain or loss of function and/or fate mapping in subgroups of brain tissues (including cortex, hippocampus, striatum, thalamus and cerebellum).

Donating Investigator

Ed Lein, Allen Institute for Brain Science

Theresa Zwingman, Allen Institute for Brain Science

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Wfs1-cre/ERT2)3Aibs

Alele Type

Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology 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

Hemizygous *Wfs1-Tg3-CreERT2* mice are viable and fertile. As the Cre-ERT2 fusion gene is under control of the *Wfs1* promoter/enhancer regions within the BAC transgene, *cre* activity is directed to cortex, hippocampus, striatum, thalamus and cerebellum only following tamoxifen administration. The donating investigators may not have assessed expression in tissues other than brain. The Cre-ERT2 fusion protein consists of Cre recombinase fused to a triple mutant form of the human estrogen receptor; which does not bind its natural ligand (17 β -estradiol) at physiological concentrations but will bind the synthetic estrogen receptor ligands 4-hydroxytamoxifen (OHT or tamoxifen) and, with lesser sensitivity, ICI 182780. Restricted to the cytoplasm, Cre-ERT2 can only gain access to the nuclear compartment after exposure to tamoxifen. To counteract the mixed estrogen agonist effects of tamoxifen injections, which can result in late fetal abortions in pregnant mice, progesterone may be coadministered. When *Wfs1-Tg3-CreERT2* mice are bred with mice containing a *loxP*-flanked sequence of interest, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequence(s) in the offspring. As such, these *Wfs1-Tg3-CreERT2* mice may be useful for generating conditional mutations for studying gain or loss of function and/or fate mapping in subgroups of brain tissues (including cortex, hippocampus, striatum, thalamus and cerebellum).

[View](#) cre expression characterization.

For more characterization information, see images at the Allen Institute for Brain Science website ([Wfs1-Tg3-CreERT2 images](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(*Wfs1-cre/ERT2*)3Aibs

– 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

Probe:[Generic Cre Probe](#)

Standard PCR:[Generic Cre](#)

Standard PCR:[Tg\(Wfs1-cre/ERT2\)3Aibs](#)

Standard PCR:[Generic Cre Melt Curve Analysis](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, transgenic carrier mice may be bred together, to wildtype (noncarrier) siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the Wfs1-Tg3-CreERT2 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #009103 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



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(Wfs1-cre/ESR1)3Aibs	\$2,854.50

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Phone: 207-288-6470

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