

B6.Cg-Tg(Tmc1/mCherry)2A_g/J

Stock No: 028392 | TMC1-mCherry

 Congenic, Transgenic

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

Dr. Andrew J. Griffith, NIDCD/NIH

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Tmc1/mCherry)2A_g

Alele Type

Transgenic (Reporter, Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

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

Transmembrane channel-like gene family 1 (*Tmc1*) is essential for mechanoelectrical transduction (MET) in inner ear sensory hair cells.

These TMC1-mCherry BAC transgenic mice express the mouse *Tmc1* gene and an mCherry fluorescent reporter under the control of the endogenous *Tmc1* promoter. Expression of the transgene was confirmed in the presumed site of mechanoelectrical transduction at stereocilia tips. Confocal fluorescence images of inner hair cells from TMC1-mCherry transgenic mice at postnatal day 8 (P8) show the transgenic protein localizes predominantly to the tips of the shorter rows of stereocilia.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(*Tmc1*/mCherry)^{2A}tg

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\(Tmc1/mCherry\)2A_g-Alternate 2](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

Hemizygotes and homozygotes are viable and fertile

[Additional Breeding and Husbandry Support](#)

Citation

When using the TMC1-mCherry mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028392 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 | Hemizygous or non carrier for Tg(Tmc1/mCherry)2A _g | \$2,854.50 |

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.Cg-Tg(Tmc1/mCherry)2Ajg/J

\$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.

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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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