

B6.Cg-Tg(Tmc2/AcGFP)3A_g/J

Stock No: 028517 | TMC2-AcGFP

 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(Tmc2/AcGFP)3A_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 2 (*Tmc2*) is essential for mechanoelectrical transduction (MET) in inner ear sensory hair cells.

These TMC2-AcGFP BAC transgenic mice express the mouse *Tmc2* gene and an AcGFP fluorescent reporter under the control of the endogenous *Tmc2* promoter. Expression of the transgene was confirmed in the presumed site of mechanoelectrical transduction at stereocilia tips. Confocal images of inner hair cell stereocilia from TMC2-AcGFP transgenic mice demonstrate the protein localizes at the tips of vestibular hair cell stereocilia at postnatal day 2 (P2). By P3, fluorescent puncta are abundant and localized along the length of stereocilia as well as at the tips. At P7, TMC2-AcGFP puncta are less evident in outer hair cell (OHC) stereocilia, but present at stereocilia tips of inner hair cells (IHCs). By P10, puncta disappear from IHC stereocilia.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(*Tmc2*/AcGFP)3A_{tg}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

- 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\(Tmc2/AcGFP\)3Ajg](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Hemizygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the TMC2-AcGFP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028517 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

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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(Tmc2/AcGFP)3Ajg	\$2,854.50

RELATED PRODUCTS AND SERVICES

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LICENSING INFORMATION

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