

FVB/N-Tg(GFAP-Cadm1/EGFP)42Oje/J

Stock No: **018548**

 Coisogenic, Transgenic

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

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

hyperactive disorder (ADHD).

Donating Investigator

Sergio R. Ojeda, Oregon National Primate Research Center

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(GFAP-Cadm1/EGFP)42Oje

Alele Type

Transgenic (Reporter, Dominant negative, Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive Biology Research

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

GFAP-DNSynCAM1 transgenic mice express a dominant-negative form of the CADM1 protein that lacks the intracellular domain in an astrocyte-specific fashion, under the control of the human *GFAP*, glial fibrillary acidic protein, promoter. The transgene is expressed in the brain, and the expression pattern of the transgene mimics the endogenous gene expression pattern, as determined by immunohistochemical and Western blot analysis of EGFP. Transgenic mice on the FVB background display hyperactivity increased spontaneous locomotor activity in the open field, reduced anxiety in the zero maze, altered response to d,l-amphetamine and increased aggression. Behavioral tests reveal that transgenic mice, on the mixed B6;FVB background, have a disrupted diurnal pattern with increased total activity and reduced resting times during the light phase. Mice hemizygous for the transgenic insert are viable and fertile, although female transgenic mice have delayed puberty onset (by approximately 6 days), disrupted estrous cycles, and reduced fecundity (transgenic litter size approximately 65% of wildtype control litter size). The Donating Investigator reports that the strain cannot be maintained as homozygotes. There is no difference between the phenotype exhibited by homozygotes compared to hemizygotes.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Expression Data

Selected References

Genetics

Tg(GFAP-Cadm1/EGFP)42Oje

⊖ 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\(GFAP-EGFP, Cadm1*\)42Oje](#)

Separated PCR: [Tg\(GFAP-EGFP, Cadm1*\)42Oje](#)

Separated MCA: [Tg\(GFAP-EGFP, Cadm1*\)42Oje](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to FVB/NJ inbred mice (Stock No. [001800](#)). The Donating Investigator reports that the strain cannot be maintained as homozygous. Transgenic female mice have delayed puberty onset, disrupted estrous cycles, and reduced fecundity.

[Additional Breeding and Husbandry Support](#)

Citation

When using the FVB/N-Tg(GFAP-Cadm1/EGFP)42Oje/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018548 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.

DomesticInternational

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non Carrier for Tg(GFAP-Cadm1/EGFP)42Oje	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB/N-Tg(GFAP-Cadm1/EGFP)42Oje/J Frozen Embryo	\$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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

☰ Related Strains

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS


MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region 

^ E E E D B

Did you find what you were looking for?

Yes No