

FVB/N-Tg(C3-1-TAg)cJeg/2JegJ

Stock No: **030386** | C3(1)/TAg-REAR

 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](#)

and are a novel immunocompetent transplant model for studying basal-like triple negative breast cancer, prostate tumors from TRAMP mice, C3(1)/TAg tumor cell lines, etc. In contrast to the higher-transgene copy C3(1)/TAg line (Stock No. [013591](#)) from which it was derived, C3(1)/TAg-REAR mice have only one copy (or a partial copy) of the transgene - resulting in retained tolerance to SV40 TAg but no spontaneous cancer phenotype.

Donating Investigator

Jeffrey E Green, National Cancer Institute, National Institutes of Health (NIH/NCI)

Olga Aprelikova, National Cancer Institute, National Institutes of Health (NIH/NCI)

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(C3-1-TAg)cJeg

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive Biology Research

Research Tools

Cancer 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

The C3(1)/TAg transgene has the 5' flanking region of the rat prostatic steroid binding protein gene [C3(1)] directing expression of the early region of simian virus 40 large tumor antigen (TAg) to prostate and mammary gland tissues. The original C3(1)/TAg founder line C contained ~six transgene copies at a single locus in the telomeric portion of chromosome 6 (which contains the Ki-ras proto-oncogene) - resulting in multistage oncogenesis in prostate and mammary gland (see Stock No. [013591](#)).

From that original line, the C3(1)/TAg-REAR subline (Stock No. 030386) was identified with transgene rearrangement/deletion to only one copy (or a partial copy) in the original chromosome 6 locus. As a result, C3(1)/TAg-REAR mice exhibit no spontaneous cancer phenotype and retain immunological tolerance to cells expressing TAg (including tumors from the C3(1)/TAg and TRAMP models). C3(1)/TAg-REAR have a normally functioning immune system - as evidenced by a normal complement of subclasses of immune cells and the rejection of both human tumor cells and murine tumors derived from a non-FVB/N background. Additionally, induction of an anti-tumor immune response can be elicited in C3(1)/TAg-REAR mice (e.g., irradiated C3(1)/TAg tumor cell vaccination significantly inhibits growth of injected C3(1)/TAg-derived mammary fat pad tumors). Furthermore, C3(1)/TAg tumors or cell lines can be implanted synchronously into the mammary fat pads of large cohorts of immunocompetent C3(1)/TAg-REAR mice - this bypasses the need to wait for tumors to develop spontaneously in multiple transgenic mice over a variable time course and allows therapeutic interventions to be performed in a relatively short timeframe.

Mice hemizygous or homozygous for the C3(1)/TAg-REAR transgene are viable and fertile with normal breeding, and no spontaneous overt phenotype.

Development

Expression Data

Control Suggestions

Selected References

Genetics

[+ Tg\(C3-1-TAg\)cJeg](#)

[- 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:[Generic SV40 TAg 1](#)

Probe:[Generic SV40 TAg 1 Probe](#)

Standard PCR:[Tg\(C3-1\)cJeg](#)

QPCR:[Generic SV40 TAg 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mice hemizygous or homozygous for the C3(1)/TAg-REAR transgene are viable and fertile with normal breeding, and no spontaneous overt phenotype.

When maintaining a live colony, hemizygous mice may be bred together, to wildtype mice from the colony or to FVB/NJ inbred mice (Stock No. [001800](#)). Alternatively, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the C3(1)/TAg-REAR mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #030386 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(C3-1-TAg)cJeg	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB/N-Tg(C3-1-TAg)cJeg/2JegJ	\$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](#)

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

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