


B6;C3-Tg(CAG-SAC/EGFP)35Rang/J

Stock No: **008080**

 **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](#)

normal tissue function or life span of the host, and is potent enough at physiologically innocuous levels to concomitantly suppress the NF-kappaB pro-cell survival pathway and induce tumor suppression via apoptosis.

Donating Investigator

Vivek M Rangnekar, University of Kentucky

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-SAC/EGFP)35Rang

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Research Tools

Cancer Research

Apoptosis 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 SAC transgenic mice have normal fertility, viability, and aging. Widespread expression of the transgene is observed in all tested tissues (with some differential tissue-specific regulation of transgene expression or protein stability reported). The SAC-GFP fusion protein is composed of the cancer-specific proapoptotic effector domain (or SAC domain) of the Par-4 gene fused to an enhanced green fluorescent protein (EGFP). As a result, SAC-GFP transgenic mice have increased resistance to spontaneous liver/spleen and TRAMP-induced prostate tumor development. The protective nature of the transgene appears to be linked to inhibition of NF-kappaB activity and induction of apoptosis. Cells derived from SAC transgenic mice grow normally in short-term culture and presence of the SAC transgene prevents oncogene-mediated cellular transformation. The donating investigator reports that EGFP expression is appropriate for immunoblots, but not sufficient enough for fluorescence of flow cytometry applications. These SAC-GFP transgenic mice may be useful as a cancer-resistant model; evading oncogene-mediated tumorigenesis by expressing an archetypical anticancer therapeutic agent (SAC) that is well tolerated *in vivo*, does not compromise the normal tissue function or life span of the host, and is potent enough at physiologically innocuous levels to concomitantly suppress the NF-kappaB pro-cell survival pathway and induce tumor suppression via apoptosis.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

− Genetics

+ Tg(CAG-SAC/EGFP)35Rang

⊖ 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\(CAG-SAC/EGFP\)](#)

Standard PCR: [TG\(CAG-SAC/EGFP\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygotes may be bred to wildtype siblings or to B6C3F1/J (Stock No. [100010](#)) inbred mice.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;C3-Tg(CAG-SAC/EGFP)35Rang/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008080 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 for Tg(CAG-SAC/EGFP)35Rang	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;C3-Tg(CAG-SAC/EGFP)35Rang/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.

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