

FVB-Tg(Rag2-EGFP)1Mnz/J

Stock No: 005688

📍 Coisogenic, 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

Michel C Nussenzweig, The Rockefeller University

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Rag2-EGFP)1Mnz

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity 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

Mice hemizygous for the NG-BAC transgene are viable and fertile, with expression of enhanced green fluorescent protein (EGFP) directed by the *Rag2* promoter. EGFP expression is high in pro-B cells and decreases during B cell maturation. Similarly, EGFP induction in T cells occurs in the late CD4/CD8 double negative stage and expression decreases during maturation. While mature cells do not express EGFP, lingering protein can be detected. The transgene does not hinder B cell function or T cell proliferation. These NG-BAC transgenic mice can be used in studies of B and T cell development as EGFP fluorescence reflects *Rag2* protein expression.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Rag2-EGFP)1Mnz

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\(Rag2-EGFP\)1Mnz](#)

Standard PCR: [Tg\(Rag2-EGFP\)1Mnz](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype siblings or to FVB/NJ inbred mice.

[Additional Breeding and Husbandry Support](#)

Citation

When using the FVB-Tg(Rag2-EGFP)1Mnz/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005688 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(Rag2-EGFP)1Mnz/ | \$2,854.50 |

Related Products and Services

| | | |
|-------------------------------------|---------------------------------------|-----------|
| Frozen Mouse Embryo | FVB-Tg(Rag2-EGFP)1Mnz/J Frozen Embryo | \$2595.00 |
|-------------------------------------|---------------------------------------|-----------|

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Email: TechTran@jax.org

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