

STOCK Tg(Csf1r*-GAL4/VP16,UAS-ECFP)1Hume/J

Stock No: **026051** | MacBlue

 Transgenic

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

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phagocyte development in tissues.

Donating Investigator

David Hume, University of Edinburgh

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Csf1r*-GAL4/VP16,UAS-ECFP)1Hume

Alele Type

Transgenic (Reporter)

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

MacBlue transgenic mice express enhanced cyan fluorescent protein (ECFP) from a truncated colony stimulating factor 1 receptor (*Csf1r*) promoter using the binary yeast Gal4-UAS system. The Gal4-UAS system utilizes a transgene that consists of both Gal4-expressing and Gal4-reporting modules to drive the expression of the ECFP reporter in *Csf1r*-expressing cells. In this strain, the *Csf1r* promoter lacks the 150 bp trophoblast and osteoclast-specific transcription start sites, directing reporter expression specifically in macrophages. Hemizygotes are viable and fertile. All ECFP⁺ cells in peripheral blood of MacBlue mice are CD11b-positive, and are negative for lymphocyte markers. 10% of granulocytes in peripheral blood and bone marrow express ECFP, as do Ly6C⁺ and Ly6C⁻ monocytes. All ECFP⁺ leukocytes express the monocyte/macrophage marker F4/80. 7% of bone marrow cells are ECFP⁺. ECFP was also detected in adult dendritic cells and blood monocytes in the gut, microglia and Langerhans cells, Peyer's patches and isolated lymphoid follicles.

These mice may be bred to mice carrying tagged proteins under control of the Gal4-dependent promoter to direct expression of that protein in mononuclear phagocytes.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Csf1r*-GAL4/VP16,UAS-ECFP)1Hume

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 ECFP](#)

Standard PCR:[Tg\(Csf1r*-GAL4\)-Alternate 3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred with wildtype (non-carrier) mice from the colony. The donating investigator reports that there may be a deleterious homozygous phenotype.

[Additional Breeding and Husbandry Support](#)

Citation

When using the MacBlue mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026051 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](#)



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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or NON-Carrier for Tg(Csf1r*-GAL4/VP16,UAS-ECFP)1Hume	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Tg(Csf1r*-GAL4/VP16 UAS-ECFP)1Hume/J Frozen Embryo	\$2595.00
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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.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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