

FVB-Tg(H2-D-II15)3304Clgr/J

Stock No: 006125 | IL-15tg

 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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lymphocytic leukemia with a T-NK phenotype. Progressive alopecia is seen as early as 5-6 weeks of age, with skin lesions appearing over time.

Donating Investigator

Michael A. Caligiuri, The Ohio State University

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(H2-D-II15)3304Clgr

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Internal/Organ Research
Dermatology Research
Immunology, Inflammation and Autoimmunity Research
Cardiovascular Research
Research Tools

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 this transgene are viable and fertile. The transgene was designed to optimize the overexpression of secreted, mature interleukin-15. Transgenic IL-15 expression has a similar tissue distribution as the endogenous gene, but at a significantly higher level. IL-15 protein is detectable in the serum from most mutant, but not from wildtype, mice. Mutant mice develop a progressive alopecia by as early as 5-6 weeks of age, with skin lesions appearing over time. While all transgenic mice exhibit early polyclonal/benign expansion of natural killer and memory CD8⁺ T lymphocytes (T/NK), two distinct phenotypes emerge over time: approximately 70% of the transgenic mice will exhibit polyclonal T/NK progression in multiple tissues, while the remaining 30% are characterized by T/NK clonal expansion in multiple tissues and acute lymphoblastic leukemia (T/NK ALL). Both T/NK phenotypes are fatal within the first year of life. Mice harboring this transgene may be useful in studies related to leukemia, lymphocyte homeostasis, alopecia, and graft-versus-host disease, or as a "pre-leukemia" model to elucidate the role of pro-inflammatory cytokine expression/chronic inflammation in transformation and malignancy.

Development

Expression Data

Control Suggestions

Genetics

Tg(H2-D-II15)3304Clgr

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

Separated PCR:[Tg\(H2-D-II15\)3304Clgr](#)

Separated PCR:[Tg\(H2-D-II15\)3304Clgr](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred as hemizygotes. The donating investigator reports that homozygous mice may be infertile, and carrier males may be hard to breed after 8 weeks of age. In addition, carrier mice can often be identified by early hair thinning, especially around the ears.

[Additional Breeding and Husbandry Support](#)

Citation

When using the IL-15tg mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006125 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(H2-D-II15)3304Clgrf	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB-Tg(H2-D-II15)3304Clgr/J Frozen Embryo	\$2595.00
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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.

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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

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



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