

B6;FVB-Tg(Myh6/NFAT-luc)1Jmol/J

Stock No: 013781

 Transgenic

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

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binding site sequence [NFAT; from the mouse interleukin 4 (*Il4*) promoter]. In the hearts of adult NFAT-luc transgenic mice, NFAT-luc activity is upregulated during pathological cardiac hypertrophy induced by pressure-overload; more dramatically following myocardial infarction-induced heart failure. These NFAT-luc transgenic mice are a reporter of calcineurin-NFAT signaling, and may be useful in studying cardiac hypertrophy and calcineurin/NFAT coupling.

Donating Investigator

Jeffery D. Molkenin, Cincinnati Children's Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Myh6/NFAT-luc)1Jmol

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

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

These nuclear factor of activated T cell (NFAT)-luciferase transgenic mice display detectable luciferase activity in most tissues surveyed at 3 weeks of age, with highest expression occurring in brain, kidney, and heart - each of which are sites of considerable calcineurin (*Ppp3ca*, protein phosphatase 3, catalytic subunit, alpha isoform) protein expression. NFAT-luciferase activity peaks during developmental maturation of the heart, whereas the adult heart shows relatively lower activity. In the adult heart, NFAT-luciferase activity is upregulated in a delayed, but sustained manner throughout 8 weeks of pathological cardiac hypertrophy induced by pressure-overload, or more dramatically following myocardial infarction-induced heart failure. This strain may be useful in studies of cardiac hypertrophy and calcineurin/NFAT coupling.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Myh6/NFAT-luc)1Jmol

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\(Myh6/NFAT-luc\)](#)

Standard PCR:[Tg\(Myh6/NFAT-luc\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, hemizygotes may be bred with wildtype mice.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;FVB-Tg(Myh6/NFAT-luc)1Jmol/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #013781 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

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SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or non carrier for Tg(Myh6/NFAT-luc)1Jmol	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6;FVB-Tg(Myh6/NFAT-luc)1Jmol/J	\$2595.00

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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