

STOCK Tg(tetO-HIST1H2BJ/GFP)47Efu/JStock No: **005104** | pTRE-H2BGFP **Transgenic**

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controlled transactivator protein (rtTA) or tetracycline-controlled transactivator protein (tTA).

Donating Investigator

Elaine Fuchs, The Rockefeller University

[R E A D M O R E +](#)**GENETIC OVERVIEW****Genetic Background****Generation**[?p+F4](#)
(2019-06-13 00:00:00)**Tg(tetO-HIST1H2BJ/GFP)47Efu****Alele Type**

Transgenic (Inducible, Inserted expressed sequence)

Gnat2^{cpfl3}**Alele Type**

Spontaneous

Gene Symbol*Gnat2***Gene Name**

guanine nucleotide binding protein, alpha transducing 2

[V I E W G E N E T I C S](#)**RESEARCH APPLICATIONS**

Sensorineural Research

Research Tools

Cell Biology Research

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

356.51 Domestic price for breeder pair

[VIEW PRICE LIST](#)

Details

Important Note

This strain is segregating for *Gnat2^{cpfl3}*, cone photoreceptor function loss 3, which affects bright light (photopic) vision.

Detailed Description

These transgenic mice express the human histone 1, H2BJ, protein (*HIST1H2BJ*) and Green Fluorescent Protein (GFP) fusion protein, HIST1H2BJ/GFP, under the control of a tetracycline-responsive promoter element (TRE; tetO). H2BJ is a replication dependent histone, that functions as one of the components forming a nucleosome. When hemizygotes are bred with another transgenic mouse expressing reverse tetracycline-controlled transactivator protein (rtTA) or tetracycline-controlled transactivator protein (tTA) to create bitransgenic animals, tissue-specific HIST1H2BJ/GFP transgene expression can be regulated with the tetracycline analog, doxycycline. Pulse-chase administration of doxycycline results in retention of signal in rarely dividing, or infrequently cycling, label-retaining cells (LRCs). Potential constitutive transgene expression should be examined in tissues of interest.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(tetO-HIST1H2BJ/GFP)47Efu

– 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\(tetO-HIST1H2BJ/GFP\)47Efu](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice are maintained as hemizygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Hemizygote x +/+ sibling

Citation

When using the pTRE-H2BGFP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005104 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

– Pricing & Availability



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Available

Domestic Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
4 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
5 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
5 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
6 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
6 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
7 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
7 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
8 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
8 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
9 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
9 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
10 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
10 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
11 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00

11 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	SEX		
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
12 weeks	Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
	Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$278.00
12 weeks	Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51
	Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu		\$356.51
Male	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu		
Female	Noncarrier for Tg(tetO-HIST1H2BJ/GFP)47Efu		\$356.51
Male	Hemizygous for Tg(tetO-HIST1H2BJ/GFP)47Efu		

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Email: TechTran@jax.org

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