

B6.Cg-Tg(IghMyc)22Bri/J

Stock No: 002728 | E_μ-myc

◆ Congenic, Transgenic

Live mice available in varying quantities. Ask Customer Service for details.

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Donating Investigator

Dr. Alan Harris, The Walter & Eliza Hall Inst of Med Res

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GENETIC OVERVIEW

Genetic Background

Generation

[N?⁺2p]+N42
(2020-05-08 00:00:00)

Tg(IghMyc)22Bri

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cancer Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

281.08 Domestic price for breeder pair

V I E W P R I C E L I S T

Details

Detailed Description

Expression of the mouse *Myc* transgene is restricted to the B cell lineage. Hemizygotes show increased pre-B cells in the bone marrow throughout life and a transient increase in large pre-B cells in the blood at 3-4 weeks of age. Spontaneous pre-B and B cell lymphomas reach an incidence of 50% at 15-20 weeks in hemizygous progeny of a wildtype female mated with a hemizygous male. The transgene synergizes with an TgN(BCL2)22Wehi transgene (Stock #002319) to produce primitive lymphoid tumors within 5 weeks of birth, and with an Emu-*v-abl* transgene to produce plasmacytomas by 8 weeks. As hemizygous mice develop aggressive lymphoma at an early age (onset between 3 and 18 weeks for transgenic mice on a B6;SJL background) and have a reduced lifespan (94% of hemizygotes on a B6;SJL background die by 4 months of age), the Jackson Laboratory does not use hemizygous females for breeding.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(IghMyc)22Bri

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\(IghMyc\)22Bri-alternate1](#)

Standard PCR: [Tg\(IghMyc\)22Bri-alternate1](#)

Separated PCR: [Tg\(IghMyc\)22Bri-alternate1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

The strain is maintained by mating hemizygous male to a wildtype C57BL/6J female. As hemizygous mice develop aggressive lymphoma at an early age and have a reduced lifespan, the Jackson Laboratory does not use hemizygous females for breeding.

[Additional Breeding and Husbandry Support](#)

Mating System

Inbred x Hemizygote

C57BL/6J (000664) female x Hemizygous male

Appearance

black

Related Genotype: *a/a*

Citation

When using the E_μ-myc mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002728 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

[- Pricing & Availability](#)



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
9 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
10 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
11 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Tg(IghMyc)22Bri	\$255.00
	Male	Hemizygous for Tg(IghMyc)22Bri	\$255.00
12 weeks	Female	Noncarrier	\$78.51

SEX

Noncarrier

\$78.51

BREEDER PAIR

SEX	GENOTYPE	PRICE
Female	C57BL/6J (000664)	\$281.08
Male	Hemizygous for Tg(IghMyc)22Bri	

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