

## STOCK Tg(Cga-LHB/CGB)94Jhn/J

Stock No: 006619 | bLHB-CTP

 Transgenic

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

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### Donating Investigator

John Nilson, Washington State University

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(Cga-LHB/CGB)94Jhn

#### Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Cancer Research

Reproductive Biology Research

Internal/Organ 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

Hemizygous females are not fertile and hemizygous males are sub-fertile. Hemizygotes hypersecrete luteinizing hormone (LH) from pituitary gonadotropes under hypothalamic control. Inclusion of a bovine luteinizing hormone beta (LHB) sequence in the transgene results in a longer hormone half-life. Transgenic females display a range of reproductive and endocrine anomalies, while males are largely phenotypically normal. Transgenic males do not have elevated serum LH or testosterone when compared to wildtype animals, although their testes are significantly smaller. Transgenic females display elevated serum LH, androgens, and estrogens, with subsequent phenotypes including infertility with chronic anovulation and ovarian pathologies ranging from ovarian cysts to strain-dependent granulosa and theca-interstitial cell tumors. Tumors have been noted in mice from age 4 to 9 months. Other major phenotypes include hyperandrogenemia and precocious puberty, defects in uterine receptivity and mid-gestation pregnancy failure, increased oocyte congression failure, adrenocortical hyperfunction, increased central obesity, pituitary adenomas, mammary gland hyperplasia, cancer predisposition, and renal abnormalities (enlarged bladders, dilated ureters, hydronephrosis, nephritis). In humans, LH hypersecretion is implicated in infertility, miscarriages, and development of granulosa cell tumors. This transgenic mouse is a unique model that permits the study of underlying mechanisms of LH toxicity as female transgenic animals display similar reproductive and endocrine pathologies. The female is a model of functional ovarian hyperstimulation, and displays many of the specific endocrine attributes of polycystic ovarian syndrome (PCOS), granulosa cell tumor formation, and central precocious puberty.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(Cga-LHB/CGB)94Jhn

## ⊖ Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## ⊖ 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\(Cga-LHB/CGB\)94Jhn](#)  
[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintained as a live colony, Wildtype or outbred CF-1 female x Hemizygous male crosses are used. Hemizygous females are infertile and males are subfertile.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the bLHB-CTP mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006619 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



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

## Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or Non carrier for Tg(Cga-LHB/CGB)94Jhn	\$2,854.50

### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	STOCK Tg(Cga-LHB/CGB)94Jhn/J Frozen Embryos	\$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.

## Terms Of Use

### TERMS OF USE

[General Terms and Conditions](#)

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](mailto:TechTran@jax.org)

Related Strains

- All
- By Allele
- By Gene
- By Collection



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