

## B6;CBA-Tg(Gast-EGFP)1Tcw/J

Stock No: 021588

 Transgenic

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

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cells are also detectable in colonic tumor cells induced by administration of azoxymethane and dextran sulfate sodium salt.

### Donating Investigator

Dr. Timothy C. Wang, Columbia University

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## GENETIC OVERVIEW

**Genetic Background**

**Generation**

### Tg(Gast-EGFP)1Tcw

#### Alele Type

Transgenic (Reporter)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

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

Gastrin is secreted from a subset of neuroendocrine cells residing in the gastric antrum known as G cells. Low levels are also expressed in fetal pancreas and intestine and in many solid malignancies.

Full-length mouse *Gast* drives enhanced green fluorescent protein (EGFP) reporter expression in this BAC transgenic strain. EGFP is expressed in the gastric antrum and the transitional zone to the corpus. GFP positive cells are detectable in the fetal pancreatic islets and small intestinal villi, but not in these organs of the adult mice. Acid suppressive reagents such as proton pump inhibitor omeprazole and gastrin/CCK-2 receptor (*Cckbr*, cholecystokinin B receptor) antagonist YF476 significantly increases GFP signal intensity and GFP positive cell numbers in the antrum, whereas these parameters are decreased by overnight fasting, octreotide (long-lasting somatostatin ortholog) infusion, and *Helicobacter felis* infection. GFP positive cells are detectable in the anterior lobe of the pituitary gland and importantly in the colonic tumor cells induced by administration with azoxymethane and dextran sulfate sodium salt. This transgenic mouse provides a useful tool to study the regulation of mouse gastrin gene *in vivo*, thus contributing to an understanding of the mechanisms involved in transcriptional control of the gastrin gene.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(Gast-EGFP)1Tcw

## ⊖ 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\(Gast-EGFP\)1Tcw](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Homozygotes and hemizygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6;CBA-Tg(Gast-EGFP)1Tcw/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021588 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

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
Cryo Recovery	Hemizyous or Non Carrir for Tg(Gast-EGFP)1Tcw	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;CBA-Tg(Gast-EGFP)1Tcw/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.

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## Terms Of Use

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QUESTIONS ABOUT TERMS OF USE

### 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](mailto:TechTran@jax.org)

## Related Strains

All

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