

## B6N.Cg-Tg(UGT1A1\*28)1Rhtu/J

Stock No: 014170

 Congenic, Transgenic

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

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the regulatory and functional properties of glucuronidation, and may also serve as a model for pharmacological studies associated with Gilbert's syndrome.

### Donating Investigator

Robert Tukey, University of California San Diego

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(UGT1A1\*28)1Rhtu

#### Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Hematological Research

Research Tools

Mouse/Human Gene Homologs

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

Transgenic *UGT1A1\*28* mice carry the entire human uridine diphosphate (UDP) glucuronosyltransferase 1 (*UGT1*) locus, and includes a mutant form of the human UGT1 polypeptide A1 (*UGT1A1*) promoter. Hemizygous mice are viable, fertile, and normal in size. The *UGT1* locus encodes a family of genes, including *UGT1A1-UGT1A10*. *UGT1* contains a series of divergent exon 1 sequences, each encoding the substrate binding site of a different UGT1A protein, and exons 2-5 which encode the highly conserved carboxyl terminal. Each exon 1 is regulated by its own promoter/enhancer sequences. The *UGT1A1\*28* mutation is associated with hepatic dysfunction and increased bilirubin found in Gilbert's syndrome. UGTs detoxify small lipophilic molecules and transform them into hydrophilic glucuronides, facilitating excretion. *UGT1A1\*28* transgenic mice express human *UGT1A* genes in patterns similar to the human tissues, mainly in tissues such as liver, kidney, and gastrointestinal tract. These mice may be useful for studying the regulatory and functional properties of glucuronidation, and may also serve as a model for pharmacological studies associated with Gilbert's syndrome.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(UGT1A1\*28)1Rhtu

### 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\(UGT1A1\\*28\)](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the B6N.Cg-Tg(UGT1A1\*28)1Rhtu/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014170 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

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(UGT1A1*28)1Rhtu	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6N.Cg-Tg(UGT1A1*28)1Rhtu/J	\$2595.00
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## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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