

## B6.Cg-Tg(Gfap-TK)7.1Mvs/J

Stock No: 005698

 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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mechanisms, and inflammatory bowel disease.

### Donating Investigator

Michael V Sofroniew, University of California Los Angeles

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(Gfap-TK)7.1Mvs

#### Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Internal/Organ Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

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

Mice hemizygous for the transgenic insert are viable, normal in size, and do not display any behavioral abnormalities. Transgenic males are infertile. Proliferating cells that express the herpes simplex virus thymidine kinase (HSV-TK) transgene will metabolize ganciclovir (GCV) to toxic nucleotide analogues and undergo cell death. Transgene-derived HSV-TK is present exclusively in cells expressing endogenous *Gfap*. This co-expression occurs in brain astrocytes and adult neural stem cells, enteric glia, hepatic stellate cells, and unknown cells in heart, lung, kidney, adrenal, and spleen. Chronic GCV treatment for 21 days depletes GFAP-positive adult neural stem cells from forebrain proliferative zones. GCV treatment eliminated growth of primary multipotent neurospheres cultured from the germinal zones of postnatal and adult, but not early embryonic, transgenic mice. Notably, the same treatment prevented growth of secondary multipotent neurospheres from all three developmental stages. Stab or spinal cord injury with high dose GCV treatment for 7 days induces reactive astrocyte cell death leading to altered leukocyte trafficking and impaired injury healing. High dose GCV treatment for 14 days ablates GFAP-positive glia from the jejunum and ileum leading to fulminant and fatal jejuno-ileitis. This mutant can be used in studies of adult neurogenesis, nervous system injury/repair mechanisms, and inflammatory bowel disease.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(Gfap-TK)7.1Mvs

### 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\(Gfap-TK\)7.1Mvs Alternate2](#)

Standard PCR: [Tg\(Gfap-Tk\)7.1Mvs](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, these mice are maintained by breeding hemizygous females to wildtype as transgenic males are infertile.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.Cg-Tg(Gfap-TK)7.1Mvs/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005698 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

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### Terms Of Use

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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

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