

## C57BL/6-Tg(Grik4-cre)G32-4Stl/J

Stock No: **006474** | G32-4 Cre

 Coisogenic, Transgenic

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

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mice may be useful in neurological studies involving hippocampus learning and memory, area CA3, and pyramidal cells.

### Donating Investigator

Dr. Susumu Tonegawa, Massachusetts Institute of Technology

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## GENETIC OVERVIEW

### Genetic Background

### Generation

?+N8

(2020-04-13 00:00:00)

## Tg(Grik4-cre)G32-4Stl

### Alele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

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\$278.00 Domestic price for female 4-week

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348.51 Domestic price for breeder pair

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V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Mice hemizygous for this "G32-4" transgene are viable, fertile, and do not display any gross physical or behavioral abnormalities. Transgene expression (*cre* activity) is detectable at 14 days old in area CA3 of the hippocampus, and at 8 weeks of age, recombination is observed in nearly 100% of pyramidal cells in area CA3. Recombination is also observed in other brain areas, but at distinctly lower frequencies. If bred with mice containing a *loxP*-flanked sequence of interest, tissue-specific deletion of that sequence results in the offspring. Specifically, when these mice were bred with a conditional CaMKII allele (see Stock No. [006575](#)), the resulting offspring exhibited altered neurotransmitter release. The donating investigator reports that G32-4 females may confer global *cre*-mediated deletion of *loxP*-flanked sequences in some offspring, and recommend using male G32-4 mice exclusively for such trials. These *cre*-expressing mice may be useful in neurological studies involving hippocampus learning and memory, area CA3, and pyramidal cells.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(Grik4-cre)G32-4Stl

### 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:[Generic Cre](#)

[Genotyping resources and troubleshooting](#)

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Breeding Considerations

When maintaining a live colony, hemizygous mice are bred together, to wildtype siblings, or to C57BL/6J inbred mice.

[Additional Breeding and Husbandry Support](#)

### Mating System

+/+ sibling x Hemizygote

### Citation

When using the G32-4 Cre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006474 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

## [- 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(Grik4-cre)G32-4Stl	\$278.00
	SEX		
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
9 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
10 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
11 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
	Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$278.00
12 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

BREEDER PAIR		
SEX	GENOTYPE	PRICE
Female	Hemizygous for Tg(Grik4-cre)G32-4Stl	\$348.51
Male	Noncarrier	
Female	Noncarrier	\$348.51
Male	Hemizygous for Tg(Grik4-cre)G32-4Stl	

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Tg(Grik4-cre)G32-4Stl/J Frozen Embryo	\$2595.00

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Phone: 207-288-6470

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

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