

## STOCK *Slc32a1<sup>tm2(cre)Low</sup>* /J

Stock No: **016962** | Vgat-ires-cre

 Targeted Mutation

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

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Vgat-ires-Cre knock-in mice have Cre recombinase expression directed to inhibitory GABAergic neuron cell bodies, without disrupting endogenous vesicular inhibitory amino acid transporter expression. These mice may be useful for removing floxed sequences in studies of GABAergic neuronal function.

Of note, the same Vgat-ires-Cre knock-in allele is also available on a C57BL/6J genetic background as Stock No. [028862](#).

### Donating Investigator

Bradford B. Lowell, Beth Israel Deaconess Med Cntr (Harvard)

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## GENETIC OVERVIEW

Genetic Background

Generation

*Slc32a1<sup>tm2(cre)Low</sup>*

**Allele Type**

Targeted (Recombinase-expressing)

**Gene Symbol**

*Slc32a1*

**Gene Name**

solute carrier family 32 (GABA vesicular transporter), member 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Cancer 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

*Slc32a1*<sup>tm2(cre)Low</sup> knock-in mice (commonly referred to as Vgat-ires-Cre mice) have Cre recombinase expression directed to inhibitory GABAergic neuron cell bodies, without disrupting endogenous vesicular inhibitory amino acid transporter expression. Both heterozygous and homozygous mice are viable and fertile with no gross physical abnormalities. Specifically, Cre recombinase activity is detected in inhibitory GABAergic neuron cell bodies in the caudate putamen, suprachiasmatic nucleus, central amygdaloid nucleus, and zona incerta, nucleus accumbens, lateral septum, medial septum, reticular nucleus of the thalamus, substantia nigra pars reticulata, and Purkinje cell layer of the cerebellum. When crossed with a strain containing *loxP* site-flanked sequences, Cre-mediated recombination results in tissue-specific deletion of flanked sequences in the offspring.

Of note, the targeted *Slc32a1* gene is located ~3.5 kbp (~1.9 cM) from the nonagouti locus (*A*). These C57BL/6;FVB;129S6 Vgat-ires-Cre knock-in mice have agouti coat color; presumably due to the presence of 129S6-derived *A*<sup>W</sup> allele (from the ES cells used in creating the Vgat-ires-Cre allele).

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### *Slc32a1*<sup>tm2(cre)Low</sup>

### 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

Separated PCR:[Slc32a1](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

Both heterozygous and homozygous mice are viable and fertile with no gross physical abnormalities. When maintaining a live colony, homozygous mice may be bred together.

#### [Additional Breeding and Husbandry Support](#)

##### Mating System

Homozygote x Homozygote

##### Citation

When using the Vgat-ires-cre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016962 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.

Pricing effective for USA, Canada and Mexico shipping destinations

## Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Slc32a1<tm2(cre)Low>	\$2,854.50

## Related Products and Services

<a href="#">Frozen Mouse Embryo</a>	STOCK Slc32a1<tm2(cre)Low>/J Frozen Embryo	\$2595.00
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