

B6J.129S6(FVB)-*Slc32a1*^{tm2(cre)Low}/MwarJ

Stock No: 028862 | Vgat-ires-cre knock-in (C57BL/6J)

 Congenic, Targeted Mutation

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

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conditional mutations for studying gain-or-loss of function and/or fate mapping related to GABAergic neuronal function.

Donating Investigator

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

Melissa R Warden, Cornell University

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GENETIC OVERVIEW

Genetic Background

Generation

N10+pN1F12
(2020-02-27 00:00:00)

Slc32a1^{tm2(cre)Low}

Alele Type

Targeted (Recombinase-expressing)

Gene Symbol

Slc32a1

Gene Name

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

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cancer Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

V I E W P R I C E L I S T

Details

Detailed Description

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. 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.

Based on crosses with Ai14 tdTomato reporter mice, the donating investigator of this C57BL/6J-congenic line (Stock No. 028862 Vgat-ires-cre knock-in (C57BL/6J)) reports that these mice have the same *cre* expression compared to the parental line (Stock No. [016962](#) C57BL/6;FVB;129S6 Vgat-ires-Cre knock-in).

Also of note, the targeted *Slc32a1* gene is located ~3.5 kbp (~1.9 cM) from the nonagouti locus (*A*). Whereas the parental Stock No. 016962 has agouti coat color (presumably due to the presence of 129S6-derived A^W allele from the ES cells used in creating the Vgat-ires-Cre allele), the donating investigator of this C57BL/6J-congenic Stock No. 028862 reports that during backcrossing they successfully got C57BL/6J recombination encompassing the *a* locus and bred to homozygosity. Therefore, Stock No. 028862 is *a/a* (black coat color).

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. The phenotype described above is for Vgat-ires-Cre knock-in mice on a mixed C57BL/6;FVB;129S6 genetic background (Stock No. [016962](#)). It should be noted that the phenotype of this C57BL/6J-congenic line (Stock No. 028862 Vgat-ires-cre knock-in (C57BL/6J)) could vary from that originally described for mice on other genetic backgrounds. We will modify the strain description if necessary as published results become available.

Development

Expression Data

Control Suggestions

Selected References

Genetics

[+](#) *Slc32a1^{tm2(cre)Low}*

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

Separated PCR:[Slc32a1](#)

Probe:[Slc32a1 Probe-Alternate 3](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the *Vgat-ires-cre* knock-in (C57BL/6J) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028862 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

 [AX27 \(Maximum\)](#)

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5 weeks	Female	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
	Male	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
6 weeks	Female	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
	Male	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
7 weeks	Female	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
	Male	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
8 weeks	Female	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00
	Male	Homozygous for Slc32a1 ^{trr2(cre)LowI}	\$255.00

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