

STOCK *Kiss1*^{tm1.1(cre/EGFP)Stei} /J

Stock No: **017701** | *Kiss1*-CreGFP, *Kiss1*^{Cre:GFP} v1

 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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mice may be useful for visualizing KISS1 secreting neurons and for studying their role in fertility.

Donating Investigator

Robert A. Steiner, University of Washington, Box 357290

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GENETIC OVERVIEW

Genetic Background

Generation

Kiss1^{tm1.1(cre/EGFP)Stei}

Alele Type

Targeted (Recombinase-expressing, Reporter, Null/Knockout)

Gene Symbol

Kiss1

Gene Name

KiSS-1 metastasis-suppressor

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Reproductive Biology Research

Neurobiology 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

The *Kiss1-CreGFP* allele expresses a CreGFP fusion protein (EGFP and cre fusion protein) from the *Kiss1* promoter/enhancer elements. KISS1 (Kisspeptin) mediates the onset of puberty by regulating the feedback effects of gonadotropin-releasing hormone (GnRH) and luteinizing hormone secretion from GnRH neurons. Heterozygous mice are viable and fertile, normal in size and do not display any gross physical or behavioral abnormalities. The DI states that homozygous mice are often infertile. When *Kiss1* is induced, EGFP immunofluorescence is observed in the hypothalamic arcuate nucleus (ARC) of both sexes and anteroventral periventricular nucleus (AVPV) in females. When *Kiss1-CreGFP* mice are bred with mice containing *loxP*-flanked sequence, *cre*-mediated recombination will result in deletion of the floxed sequences in the *Kiss*-expressing neurons of the offspring. These mice may be useful for visualizing KISS1 secreting neurons and for studying their role in fertility.

Update January, 2019:

Kiss1^{Cre:GFP} (v2) (see Stock No. [033169](#)) represents an improved version of this *Kiss1^{tm1.1(cre/EGFP)Ste1}* allele (Stock No. 017701, also called *Kiss1^{Cre:GFP}* v1), which is prone to ectopic expression when crossed to conditional reporter mice, as well as retains levels of low expression. Unlike the *Kiss1^{tm1.1(cre/EGFP)Ste1}* (v1), homozygotes of the *Kiss1^{Cre:GFP}* (v2) line are *Kiss1* null and infertile. Homozygous *Kiss1^{Cre:GFP}* (v2) males have diminished testosterone levels compared to heterozygotes.

Barring genetic crosses, the *Kiss1^{Cre:GFP}* v1 line (Stock No. 017701) remains a useful tool for visualizing *Kiss1* neurons for electrophysiological recordings with the GFP-fused *cre*-reporter transgene. No immunohistochemistry is required to visualize GFP expression in the *Kiss1^{Cre:GFP}* v1 line. Also, viral injections into adult v1 mice, as opposed genetic crosses, can be used to gain control of those *Kiss1* neurons and thereby avoid developmental ectopic recombination.

Development

Expression Data

Control Suggestions

Selected References

Genetics

+ [Kiss1^{tm1.1\(cre/EGFP\)Ste1}](#)

– 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:[Kiss1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony heterozygous mice may be bred together. The DI states that homozygous are often infertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Kiss1-CreGFP, *Kiss1^{Cre:GFP}* v1

mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017701 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

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Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Kiss1 ^{tm1.1(cre/EGFP)Stei} >	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Kiss1 ^{tm1.1(cre/EGFP)Stei} >/J Frozen Embryo	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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