



# STOCK *trp1<sup>(cre)</sup>Low1* / J

Stock No: 012899 | **AgRP-Ires-cre**

Targeted Mutation



AVAILABLE

PLACE ORDER

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

## Overview

### Also Known As: **AgRP-Ires-cre**

AgRP-IRES-Cre knock-in mice have IRES-Cre inserted downstream of the stop codon of the agouti related neuropeptide locus. Cre recombinase expression is observed in agouti-related protein secreting neurons. These mice may be useful for studying the physiological functions of GABA neurotransmission in agouti-related protein neurons in the hypothalamus.

### Donating Investigator

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

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## GENETIC OVERVIEW

Genetic Background      Generation  
F?<sup>+</sup>F18  
(2019-03-18 00:00:00)

*Agrp*<sup>tm1(cre)Low</sup>

Allele Type	Gene Symbol	Gene Name
Targeted (Recombinase-expressing)	<i>Agrp</i>	agouti related neuropeptide

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Neurobiology Research

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

## 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

Mice homozygous for the AgRP-IRES-Cre knock-in allele are viable and fertile, with IRES-Cre inserted downstream of the *Agrp* stop codon. As such, *cre* expression is directed by the endogenous promoter/enhancer regions. Specifically, Cre recombinase expression is observed in agouti-related protein (AgRP) secreting neurons. When bred with mice containing a *loxP*-flanked sequence of interest, Cre-mediated recombination will result in deletion of the floxed sequence(s) in the offspring. These mice may be useful for studying the physiological functions of GABA neurotransmission in ArGP neurons in the hypothalamus.

When AgRP-IRES-Cre mice are bred to have Cre-inducible channelrhodopsin/EYFP expression (e.g., Ai32 [Stock Nos. [012569/024109](#)]), the resulting double mutant animals allow manipulation of AgRP-expressing neuron dynamics (sensory and post-ingestive signals) in response to caloric food and/or experimental compound consumption [[Su, Alhadeff and Betley 2017 Cell Rep. 21:2724](#)].

#### Development

#### Expression Data

#### Control Suggestions

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+ Selected References

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- Genetics

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+ *Agrp<sup>tm1(cre)Low</sup>*

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- Disease/Phenotype

+ Disease Terms

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+ Research Areas By Genotype

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+ Mammalian Phenotype Terms by Genotype

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+ References

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- Technical Support

CHAT OFFLINE

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## Genotyping Protocols

Probe: [Generic Cre](#)

QPCR: [Generic Cre](#)

Separated PCR: [Agrp<sup>tm1\(cre\)Low</sup>](#)

[Genotyping resources and troubleshooting](#)

## Dietary Information

LabDiet® 5K52 formulation (6% fat)

## Breeding Considerations

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 *Agrp<sup>tm1(cre)Low</sup>* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012899 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

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- 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	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
5 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
6 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
7 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
8 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
9 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
10 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
11 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
12 weeks	Female	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00
	Male	Homozygous for Agrp <sup>tm1(cre)LowI</sup>	\$255.00

### Related Products and Services

Frozen Mouse Embryo	<a href="#">STOCK Agrp<sup>tm1(cre)LowI</sup>/J Frozen Embryo</a>	\$2595.00
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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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

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All

By Allele

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