

**B6.Cg-Npy1r<sup>tm1.1(cre/GFP)Rpa</sup>/J**  
Stock No: **030544** | *Npy1r<sup>cre:GFP</sup>*

 Congenic, Targeted Mutation

Live colonies will be removed soon

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These targeted mutant mice express cre recombinase from the mouse *Npyr1* (neuropeptide Y receptor Y1) promoter and have been useful in tracing synaptic networks.

#### Donating Investigator

Dr. Richard Palmiter, University of Washington

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## GENETIC OVERVIEW

### Genetic Background

### Generation

[N9+pN1F2](#)  
(2019-01-25 00:00:00)

*Npy1r<sup>tm1.1(cre/GFP)Rpa</sup>*

### Alele Type

Targeted (Recombinase-expressing, Reporter)

### Gene Symbol

*Npy1r*

### Gene Name

neuropeptide Y receptor Y1

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Postsynaptic targets of hypothalamic NPY-expressing *Agrp*<sup>+</sup> neurons express *Npy1r* (neuropeptide Y receptor Y1). These mutant mice, expressing cre recombinase from the *Npy1r* promoter, are useful in defining the synaptic network originating from a subset of *Agrp*<sup>+</sup> neurons.

When crossed with mice expressing a floxed stop tdTomato reporter (R26<sup>fs-tdT/+</sup>; see Stock No. [007914](#)), cre expression is detected in the anterior-dorsal, anterior ventral, posterior dorsal and posterior ventral medial amygdala (MeA). Injections of cre-dependent adeno-associated virus (AAV) fluorescent reporter are also effective in labeling cells.

A nuclear localizing signal (NLS) directs expression of cre to the nucleus. A Myc-tag feature has not been tested. Although incorporated in the targeting construct, GFP fluorescence is too low to be visualized directly or through immunohistochemistry.

Heterozygous and homozygous mice involving this mutation are viable, fertile, and show no overt phenotype as the coding region of the gene is unaffected. Expression levels of *Npy1r* have not been examined.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### *Npy1r*<sup>tm1.1(cre/GFP)Rpa</sup>

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## ⊖ 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

Probe:[Generic Cre Probe](#)

Probe:[Fluorescent Proteins \(Generic GFP\)](#)

Probe:[Generic Neo](#)

Standard PCR:[Npy1r Alternate1](#)

Probe:[Npy1r Probe](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

### Mating System

Homozygote x Homozygote

### Citation

When using the *Npy1r<sup>cre:GFP</sup>* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #030544 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

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## ⊖ Pricing & Availability



Live colonies will be removed soon

Available

# Domestic Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
5 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
6 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
7 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
8 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
9 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
10 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
11 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
12 weeks	Female	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00
	Male	Homozygous for Npy1r <sup>tm1.1(cre/GFP)Rpa</sup>	\$255.00

CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Npy1r<sup>tm1.1(cre/GFP)Rpa</sup>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	B6.Cg-Npy1r<sup>tm1.1(cre/GFP)Rpa</sup>/J	\$2595.00

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