

## STOCK Tg(CAG-KikGR)33Hadj/J

Stock No: 013753

 Transgenic

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

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behaviors, population dynamics and cell fate in embryos and adult mice.

### Donating Investigator

Anna-Katerina Hadjantonakis, Memorial Sloan-Kettering Cancer Center

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(CAG-KikGR)33Hadj

#### Alele Type

Transgenic (Reporter)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

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

*CAG::KikGR*<sup>33</sup> transgenic mice express a Kikume Green-Red (KikGR) photoconvertible fluorescent protein under the control of a CMV enhancer/chicken beta-actin promoter (CAGGS) promoter. Mice homozygous for the transgene are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. KikGR, engineered from *Favia fava* coral, changes color from green to red upon activation in embryos, adult mice, and embryonic stem (ES) cells. At basal state, green fluorescence is seen in all cells. A single cell or group of cells at basal state, exposed to 405 nm wavelength light, undergo photo conversion and fluoresce red. Since KikGR is developmentally neutral and non-toxic, the movement of these fluorescent cells, and their progeny, can be imaged during embryonic development. Mice from founder line 33 exhibits widespread expression of KikGR, while mice from founder line 75 (Stock No. [013754](#)) exhibited widespread KikGR expression in a more mosaic pattern, allowing the analysis of cell morphology and cell behavior dynamics. These mice are useful as reporters for studying individual cell behaviors, population dynamics and cell fate in embryos and adult mice.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(CAG-KikGR)33Hadj

## Disease/Phenotype

### Disease Terms

[+ 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

Standard PCR:[Tg\(CAG-KikGR\)](#)

Standard PCR:[Tg\(CAG-KikGR\)](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (non-carrier) mice from the colony or C57BL/6J (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the STOCK [Tg\(CAG-KikGR\)33Hadj/J](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #013753 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.

**Domestic****International**

Pricing effective for USA, Canada and Mexico shipping destinations

**CRYORECOVERY - DOMESTIC PRICING**

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or Non carrier for Tg(CAG-KikGR)33Hadj	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	STOCK Tg(CAG-KikGR)33Hadj/J Frozen Embryo	\$2595.00

## PAYMENT TERMS AND CONDITIONS

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## Terms Of Use

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### LICENSING INFORMATION

Phone: 207-288-6470  
 Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

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By Allele

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