

B6.Cg-Zfp335^{tm1Caw}

Stock No: **022413**

 Congenic, 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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and neonatal death. The promoter, exon 1 and exon 2 of the mouse gene, as well as an Frt-flanked neomycin cassette are flanked by loxP sites in this conditional targeted mutation strain, enabling tissue-specific knockouts mediated by Cre recombinase.

Donating Investigator

Christopher Walsh, Boston Children's Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

Zfp335^{tm1Caw}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Zfp335

Gene Name

zinc finger protein 335

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Zfp335 (zinc finger protein 335; also known as a NRC-interacting factor 1 (Nif1)) is a regulator of vertebrate neurogenesis. As a component of the trithorax H3K4-methylation complex that regulates REST/NRSF, it is essential for neural cell progenitor self-renewal, neurogenesis, and neuronal differentiation. A c.3332g>a mutation in the human gene is associated with severe microcephaly, neuronal degeneration, and neonatal death.

In this targeted mutation strain, the *Zfp335* promoter, exon 1, exon 2, and an Frt-flanked neomycin cassette are flanked by loxP sites. Cre-mediated excision of this floxed region enables the generation of tissue-specific knockouts. Widespread loss of ZNF335 protein in mice leads to embryonic lethality as early as embryonic day 7.5 (E7.5).

When crossed with *Emx1-cre* mice (see Stock No. [005628](#)), progeny lack almost all cortical structure and cortical neurons, leading to the formation of a small brain with a thin sheath of tissue and enlarged ventricles.

Development

Control Suggestions

Selected References

Genetics

Zfp335^{tm1Caw}

⊖ 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

Standard PCR:[Zfp335](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygous and heterozygous floxed mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-Zfp335^{tm1Caw} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #022413 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

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
Cryo Recovery	Heterozygous for Zfp335<tm1Caw>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Zfp335<tm1Caw> Frozen Embryo	\$2595.00
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Q U E S T I O N S A B O U T T E R M S O F U S E

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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By Collection



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