

B6.129S-Batf^{tm1.1Kmm}/J

Stock No: **013758** | Batf

 Congenic, Targeted Mutation

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cells differentiation associated with Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis.

Donating Investigator

Dr. Kenneth Murphy, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Batf^{tm1.1Kmm}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Batf

basic leucine zipper transcription factor, ATF-like

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity 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

These *Batf*^{-/-} mutant mice lack exons 1-2 of the basic leucine zipper transcription factor (*Batf*), ATF-like gene, abolishing gene function. Mice that are homozygous for this allele are viable and fertile. *Batf* is highly expressed in T helper (T_H) 1, T_H2 and T_H17 cells. *Batf* is required for the differentiation of interleukin (IL)-17-producing T_H17 cells which are CD4⁺ T cells that coordinate inflammatory responses in host defense. These mice exhibit normal T_H1 and T_H2 differentiation, but show a defect in T_H17 differentiation with a reduction in IL-17 production, but maintain normal levels of IL-2, interferon (IFN)- γ , and IL-10 under T_H17 conditions. Since T_H17 cells are the major pathogenic population in experimental autoimmune encephalomyelitis (EAE), these *Batf*^{-/-} mice are completely resistant EAE even when immunized with myelin oligodendrocyte glycoprotein peptide 35-55 (MOG₃₅₋₅₅), a peptide known to cause demyelination associated with multiple sclerosis (MS) and EAE.

Development

Control Suggestions

Selected References

Genetics

Batf^{tm1.1Kmm}

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:[Batf](#)

Standard PCR:[Batf](#)

[Genotyping resources and troubleshooting](#)

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 [Batf^{-/-}](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #013758 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](#)

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Cryo
Recovery

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Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT

DESCRIPTION

PRICE

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129S-Baf<tm1.1Kmm>/J

\$2595.00

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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ADDITIONAL USE RESTRICTIONS APPLY

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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All

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By Gene

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