

B6.129S6(C)-Zbtb46^{tm1.1Kmm}/J

Stock No: **027618** | Zbtb46^{gfp}

 Congenic, Targeted Mutation

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

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Donating Investigator

Dr. Kenneth Murphy, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

N9+pN2F3
(2020-12-07 00:00:00)

Zbtb46^{tm1.1Kmm}

Allele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Zbtb46

Gene Name

zinc finger and BTB domain containing 46

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

V I E W P R I C E L I S T

Details

Detailed Description

An enhanced green fluorescent protein replaces exon 2, which encodes the start codon and the BTB domain of the zinc finger and BTB domain containing 46 (*Zbtb46*) gene. *Zbtb46* is a transcription factor expressed in classical dendritic cells (cDCs) and their progenitors, where it regulates but is not required for differentiation. Homozygous *Zbtb46*^{GFP} mice are viable and fertile. GFP expression can be observed in cDCs, and committed erythroid progenitors and endothelial cells in lymphoid tissues. The absence of ZBTB46 in these cDCs represses alternate myeloid potential by maintaining granulocyte colony stimulating factor and leukemia inhibitory factor receptor expression.

Of note, this allele is also available on a 129S background (Stock No. [028823](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Zbtb46^{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
[Separated MCA:Zbtb46 MCA](#)
[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 Zbtb46^{gfp} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027618 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX12 \(Maximum\)](#)

[- 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 Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
5 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
6 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
7 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
8 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
9 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
10 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
11 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
12 weeks	Female	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00
	Male	Homozygous for Zbtb46 ^{tm1.1Kmm}	\$278.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129S6(C)-Zbtb46^{tm1.1Kmm}/J

\$2595.00

PAYMENT TERMS AND CONDITIONS

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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection





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