

B6.Cg-Fas^{tm1.1(ALPP)Chnd}/J

Stock No: **026643**

 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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sequence of the gene is excised, and PLAP is expressed as a reporter for FAS.

Donating Investigator

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GENETIC OVERVIEW

Genetic Background

Generation

Fas^{tm1.1(ALPP)Chnd}

Allele Type

Targeted (Conditional ready
(e.g. floxed), Reporter)

Gene Symbol

Fas

Gene Name

Fas (TNF receptor superfamily member 6)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity Research

Apoptosis Research

Cancer 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

FAS (Fas (TNF receptor superfamily member 6)) is a receptor from the TNFR family that binds a single ligand, FASL. In most (but not all) cells, activation of FAS induces rapid apoptosis. This is best characterized in the immune system, where FAS is critical to regulation of B and T cell numbers. Mutations in either FASL or FAS lead to unregulated lymphocyte proliferation and autoimmunity that is ultimately fatal. The role of FAS outside of the immune system is less characterized, but there are clear roles in the damaged nervous system, cancer, and in the stem cell niche.

Exons 2-9 of the *Fas* gene are flanked by loxP sites and tagged with human placental alkaline phosphatase (PLAP) in this conditional knockout/reporter allele. Following Cre-mediated recombination, everything except the secretion leader sequence of the gene is excised, and PLAP is expressed as a reporter for FAS.

Germline deletion converts the mice into complete nulls, which manifest significant defects in the immune system such as B and T cell regulation that lead to severe lymphoproliferation and autoimmunity that is ultimately fatal. Cell-specific, conditional deletion will allow analysis of which FAS-expressing cell populations are involved.

Crosses with Ella-Cre (affecting all cells; see Stock No. [003724](#)), nestin-Cre (expressed in all neural progenitors; see Stock No. [003771](#)), Olig2-Cre (motor neuron and astrocyte progenitor-specific), and Chat-Cre (expressed post-mitotic motor neurons; see Stock No. [006410](#)) have demonstrated effectiveness of the FAS knockout/reporter.

The naturally occurring *lpr* mutant (e.g Stock No. [000482](#)) has been the most commonly studied mutant, but it produces some functional protein that may signal bidirectionally through the *Fas* ligand, and does not allow tissue specific deletion.

The *Fas*^{tm1Cgn} allele (see Stock No. [007895](#)) enables the conditional elimination of the intracellular death domain of *Fas* (encoded by exon 9), but not the extracellular and transmembrane domains which have the potential for reverse signaling through FASL).

Development

Expression Data

Control Suggestions

– Genetics

+ [Fas^{tm1.1\(ALPP\)Chnd}](#)

– 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:[Fas](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygous and homozygous floxed mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-*Fas*^{tm1.1(ALPP)Chnd}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026643 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

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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Fas^{tm1.1(ALPP)}Chnd>	\$2,854.50

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