

## B6.Cg-*Commd10*<sup>Tg(Vav1-icre)A2Kio</sup>/J

Stock No: 008610 | Vav-iCre

 Congenic, Transgenic

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

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hematopoietic cells.

In [Goodwin et al. 2019 Genome Res. 29:494](#), it was discovered that the transgene integrated into an intron of *Commd10* (COMM domain containing 10) on chromosome 18 - creating a *Commd10* null allele.

### Donating Investigator

Dimitris Kioussis, MRC Natl Inst for Med Research

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## GENETIC OVERVIEW

### Genetic Background

### Generation

N16+pN1  
(2018-10-29 00:00:00)

*Commd10*<sup>Tg(Vav1-icre)A2Kio</sup>

### Alele Type

Transgenic (Recombinase-expressing, Null/Knockout)

VIEW GENETICS

## RESEARCH APPLICATIONS

Hematological Research  
Immunology, Inflammation and Autoimmunity Research  
Cancer Research  
Research Tools  
Developmental Biology Research

## BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

333.51 Domestic price for breeder pair

VIEW PRICE LIST

## Details

### Detailed Description

These transgenic mice express Cre recombinase under the control of the mouse *vav* 1 oncogene (*Vav1*) promoter. The transgene integrated into an intron of *Commd10* (COMM domain containing 10) on chromosome 18. The insertion results in a functional knock-out of *Commd10* in homozygous mice.

Mice hemizygous for this Vav-iCre transgene are viable and fertile, with the mouse HS21/45-*vav* control regions directing expression of an optimized variant of Cre recombinase (iCre) to hematopoietic cells (and their progenitors). Using crosses to a reporter strain, variegated germ line (testis and ovaries), and heart and gut expression is also reported. When bred with mice containing a *loxP*-flanked sequence of interest, Cre-mediated recombination will result in deletion of the floxed sequence(s) in the offspring. These Vav-iCre transgenic mice may be useful for generating conditional mutations in hematopoietic cells.

Joseph *et al.* 2013 *Cell Stem Cell* 13:520 reports that Vav-iCre mice express iCre in hematopoietic cells and endothelial cells, as well as in the testes. For Cre-lox experiments and to avoid/minimize germline deletion of the floxed allele, researchers may consider breeding Vav-iCre females with floxed males. However, female germline expression may also be observed (see below).

If the recombinase activity pattern of this allele is further characterized by the Genetic Resource Science group at The Jackson Laboratory, such findings will be reported on the Mouse Genome Informatics (MGI) Allele Detail entry ([Commd10<sup>Tg\(Vav1-cre\)A2Kio</sup>](#)). This same information would also be found searching the [MGI Recombinase Activity](#) database.

This Vav-iCre strain (Stock No. 008610) allows reliable deletion of specific genes throughout the entire hematopoietic compartment, whereas the hCD2-iCre strain (Stock No. 008520) allows targeting to be focused to T cells and B cells.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

[+ \*Commd10\*<sup>Tg\(Vav1-icre\)A2Kio</sup>](#)

## 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:[Generic iCre](#)

Standard PCR:[Tg\(Vav1-cre\)A2Kio](#)

Standard PCR:[Generic iCre](#)

Probe:[Generic iCre Probe](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) siblings or to C57BL/6J. The donating investigator reports that homozygous mice are not viable.

[Joseph \*et al.\* 2013 \*Cell Stem Cell\* 13:520](#) reports that Vav-iCre mice express iCre in hematopoietic cells and endothelial cells, as well as in the testes. For Cre-lox experiments and to avoid/minimize germline deletion of the floxed allele, researchers may consider breeding Vav-iCre females with floxed males. However, female germline expression may also be observed (see the Mouse Genome Informatics (MGI) Allele Detail entry: [Commd10<sup>Tg\(Vav1-icre\)A2Kio</sup>](#)).

### [Additional Breeding and Husbandry Support](#)

#### Mating System

Noncarrier x Hemizygote

#### Citation

When using the Vav-iCre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008610 in your Materials and Methods section.

## Animal Health Reports

## Facility Barrier Level Descriptions

 AX18 (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	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
9 weeks	Female	Noncarrier	\$78.51

	SEX	Genotype	PRICE
10 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
11 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
	Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>	\$255.00
12 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

BREEDER PAIR			PRICE
SEX	GENOTYPE		
Female	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>		\$333.51
Male	Noncarrier		
Female	Noncarrier		\$333.51
Male	Hemizygous for Commd10 <sup>Tg(Vav1-icre)A2Kio</sup>		

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## TERMS OF USE

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# TOMORROW'S CURES



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