



# C57BL/6J *Mitf<sup>mi-vit</sup>* FACUL

Stock No: 002134

Coisogenic, Spontaneous Mutation



AVAILABILITY VARIES

CONTACT CUSTOMER SERVICE

## Overview

Mice homozygous for the vitiligo spontaneous mutation *Mitf<sup>mi-vit</sup>* are only mildly affected in eye size, pigmentation, and the capacity for secondary bone resorption compared to other *Mitf* alleles. Homozygous mutant mice have a lighter initial coat color than normal with extensive white spotting with eventual hair cycles resembling human vitiligo. Homozygotes exhibit uneven pigmentation of the retina and slow, progressive photoreceptor cell loss, eventually leading to blindness.

READ MORE +

## GENETIC OVERVIEW

Genetic Background      Generation  
**F?<sup>+</sup>18**  
(2016-12-29 00:00:00)

*Mitf<sup>mi-vit</sup>*

Allele Type	Gene Symbol	Gene Name
Spontaneous	<i>Mitf</i>	melanogenesis associated transcription factor

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research  
Neurobiology Research  
Sensorineural Research  
Mouse/Human Gene Homologs  
Dermatology Research  
Endocrine Deficiency Research

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

## BASE PRICE

Starting at:

\$139.24 Domestic price for female

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Mutations at the *Mitf* locus affect eye size, pigmentation, and the capacity for secondary bone resorption. Mice homozygous for the vitiligo spontaneous mutation *Mitf<sup>mi-vit</sup>* are only mildly affected compared to other *Mitf* alleles. Homozygous mutant mice have a lighter initial coat color than normal with extensive white spotting. After eight weeks of age, the mice producing increasing numbers of white hairs with each hair cycles resembling human vitiligo. Homozygotes exhibit uneven pigmentation of the retina and slow, progressive photoreceptor cell loss, eventually leading to blindness.

#### Development

#### Control Suggestions

### Genetics

[+ \*Mitf\*<sup>mi-vit</sup>](#)

## [- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

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### Genotyping Protocols

[Genotyping resources and troubleshooting](#)

### Mating System

Homozygote x Homozygote

### Appearance

black, white spotting with retinal degeneration

Related Genotype: *a/a Mitf*<sup>mi-vit</sup>/*Mitf*<sup>mi-vit</sup>

### Citation

When using the C57BL/6J-*Mitf*<sup>mi-vit</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002134 in your Materials and Methods section.

[Animal Health Reports](#)

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 [MGL277 \(Low\)](#)

## [- Pricing & Availability](#)



Availability  
Varies

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for <i>Mitf</i> <sup>mi-vit</sup>	\$139.24

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## Terms Of Use

### Terms of Use

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