

**C57BL/6-*Col1a1*<sup>Mov13</sup>/J**  
Stock No: **002197** | Mov-13

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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mouse *Col1a1* (collagen, type I, alpha 1; also called Mov-13) gene. Heterozygotes can develop severe generalized lymphosarcoma at an early age.

### Donating Investigator

Rudolf Jaenisch, Whitehead Institute, Massachusetts Institute of Technology

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## GENETIC OVERVIEW

Genetic Background

Generation

*Col1a1*<sup>Mov13</sup>

### Alele Type

Transgenic

VIEW GENETICS

## RESEARCH APPLICATIONS

Dermatology Research  
Developmental Biology Research  
Reproductive Biology Research  
Cardiovascular 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 Mov-13 mice carry a single copy of the Moloney murine leukemia virus (MMuLV) stably integrated into intron 1 of the mouse (collagen, type I, alpha 1; also called Mov-13) gene, just 19 base pairs downstream of the intron/exon boundary. The insertion creates a complete transcriptional block in most cell types. Mice activate infectious virus during embryogenesis, leading to a distinct pattern of virus expression in all tissues of the adult.

When maintained as a live colony at The Jackson Laboratory, we noted significant casualties in heterozygotes due to severe generalized lymphosarcoma. Lymph nodes become enlarged, as are the liver and spleen. Kidneys and lungs may also be affected. Homozygous mice suffer from arrested development at embryonic day 12 and die at about embryonic day 13-14.

Heterozygous females are generally limited to producing a single litter (if any), thus the donating laboratory maintained their line by crossing heterozygous males with inbred/wildtype females.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### $Col1a1^{Mov13}$

## – Disease/Phenotype

+ [Disease Terms](#)

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+ [Research Areas By Phenotype](#)

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+ [Mammalian Phenotype Terms by Genotype](#)

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+ [References](#)

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## – 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:[Col1a1](#)

Standard PCR:[Col1a1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes are viable and fertile, but subject to the development of leukemia/lyphosarcoma. Homozygous mice suffer from arrested development at embryonic day 12 and die at about embryonic day 13-14.

Heterozygous females are generally limited to producing a single litter (if any), thus the donating laboratory maintained their line by crossing heterozygous males with inbred/wildtype females.

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

#### Appearance

black

Related Genotype: *a/a*

#### Citation

When using the Mov-13 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002197 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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## 🔻 Pricing & Availability



Cryo  
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

### Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

#### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Col1a1<Mov13>	\$2,854.50

#### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Col1a1<Mov13>/J	\$2595.00
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## 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

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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](mailto:TechTran@jax.org)

### Related Strains

All

By Allele

By Gene

By Collection



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