

C58/J

Stock No: 000669

 Inbred Strain

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

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

?+F38

(2019-12-31 00:00:00)

VIEW GENETICS

## RESEARCH APPLICATIONS

Cardiovascular Research

Cancer Research

Research Tools

Neurobiology Research

Sensorineural Research

Metabolism Research

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$218.00 Domestic price for female 4-week

VIEW PRICE LIST

## Details

### Important Note

This strain is homozygous for *Cdh23<sup>ahl</sup>*, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset after 10 months of age.

### Detailed Description

This strain was developed by MacDowell in 1921 from litter mates 58 and 52 of Miss Lathrop's stock. A mating of the same male but a different female gave rise to the commonly used C57BL group of strains. C58/J mice exhibit a high incidence of leukemia (>90% by one year of age). C58/J mice also exhibit an intermediate susceptibility to developing atherosclerotic aortic lesions (1670 to 1690  $\mu\text{m}^2$  atherosclerotic aortic lesions/aortic cross-section) following 14 weeks on an atherogenic diet (1.25% cholesterol, 0.5% cholic acid and 15% fat).

Bone marrow cells of C58/J mice (and mice of 9 other strains, excluding closely derived C57 strains) carry the interleukin 3 receptor, alpha chain; mutation 1 allele (*Il3ra<sup>m1</sup>*) which confers non-responsiveness to Interleukin-3 (IL-3). IL-3 normally stimulates colony formation of multiple lineages of hematopoietic cells.

Other characteristics include: low social preference, poor performance in the T-maze, and overt motoric stereotypy. C58/J mice are homozygous for the high affinity aryl-hydrocarbon receptor; b-1 variant (*Ahr<sup>b-1</sup>*).

### Selected References

## Genetics

+ *Il3ra<sup>m1</sup>*

+ *Rmcf<sup>s</sup>*

+ *Cdh23<sup>ahl</sup>*

+ *Mx1<sup>s1</sup>*

+ *Ahr<sup>b-1</sup>*

+ *Cd5<sup>b</sup>*

+ *Micr<sup>n</sup>*

+ *Cox7a2<sup>l<sup>s</sup></sup>*

## ⊖ Disease/Phenotype

+ Disease Terms

---

+ Research Areas By Phenotype

---

+ Mammalian Phenotype Terms by Genotype

---

+ Phenotype Information

---

+ 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

[Genotyping resources and troubleshooting](#)

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Mating System

Sibling x Sibling

### Appearance

black

Related Genotype: *a/a*

### Citation

When using the C58/J mouse strain in a publication, please include JAX stock #000669 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 AX10 (Standard)

## ⊖ Pricing & Availability



Available

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

LIVE MOUSE		
AGE	SEX	PRICE
4 weeks	Female	\$218.00
	Male	\$218.00
5 weeks	Female	\$218.00
	Male	\$218.00
6 weeks	Female	\$218.00
	Male	\$218.00
7 weeks	Female	\$218.00
	Male	\$218.00
8 weeks	Female	\$218.00
	Male	\$218.00
9 weeks	Female	\$218.00
	Male	\$218.00
10 weeks	Female	\$218.00
	Male	\$218.00
11 weeks	Female	\$218.00
	Male	\$218.00
12 weeks	Female	\$218.00
	Male	\$218.00

## 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

[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

## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

### JAX® Mice, Products & Services Conditions of Use

"MICE" means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory ("JACKSON"). "PRODUCT(S)" means biological materials supplied by JACKSON, and their derivatives. "SERVICES" means projects conducted by JACKSON for other parties that may include but are not limited to the use of MICE or PRODUCTS. "RECIPIENT" means each recipient of MICE, PRODUCTS, or SERVICES provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON's prior written authorization.

### No Warranty

MICE, PRODUCTS AND SERVICES ARE PROVIDED "AS IS". JACKSON EXTENDS NO WARRANTIES OF ANY KIND, EITHER EXPRESS, IMPLIED, OR STATUTORY, WITH RESPECT TO MICE, PRODUCTS OR SERVICES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF ANY PATENT, TRADEMARK, OR OTHER INTELLECTUAL PROPERTY RIGHTS.

## Credit for PRODUCTS or SERVICES

In case of dissatisfaction for a valid reason and claimed in writing by a purchaser within ninety (90) days of receipt of, PRODUCTS or SERVICES, JACKSON will, at its option, provide credit or replacement for the PRODUCT received or the SERVICES provided; JACKSON makes no other representations and this shall be the exclusive remedy of the purchaser. [Please note specific policy for live mice.](#)

## Animal Care and Use for SERVICES

Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

### No Liability

In no event shall JACKSON, its trustees, directors, officers, employees, and affiliates be liable for any causes of action or damages, including any direct, indirect, special, or consequential damages, arising out of the provision of MICE, PRODUCTS, or SERVICES, including economic damage or injury to property and lost profits, and including any damage arising from acts or negligence on the part of JACKSON, its agents or employees. Unless prohibited by law, in purchasing or receiving MICE, PRODUCTS, or SERVICES from JACKSON, purchaser or recipient, or any party claiming by or through them, expressly releases and discharges JACKSON from all such causes of action or damages, and further agrees to defend and indemnify JACKSON from any costs or damages arising out of any third party claims.

MICE, PRODUCTS or SERVICES are to be used in a safe manner and in accordance with all applicable governmental rules and regulations.

The foregoing represents the General Terms and Conditions applicable to JACKSON's MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors.

Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth herein, including any special terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.

## Related Strains

All

By Allele

By Gene

By Collection

All Related Strains



### DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS PRIVACY POLICY TERMS OF USE

RESEARCH CENTERS MOUSE GENOME INFORMATICS

MOUSE PHENOME DATABASE

Leading the search for

# TOMORROW'S CURES



©2020 THE JACKSON LABORATORY

Choose other country or region



^  
E E E D B

Did you find what you were looking for?

Yes  No