

HRS/J

Stock No: 000673

 Inbred Strain, Spontaneous Mutation

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

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mutant mice. The coat is normal on *hr/hr* mice up to 10 days but then hair is lost from the follicle. Waves of hair growth with few thin fuzzy hairs occur at monthly intervals for some time but homozygotes eventually become continuously hairless. Vibrissae are repeatedly regrown and shed, becoming more abnormal with age. Toenails are long and curved. There is hyperkeratosis of stratified epithelium and the upper part of hair canals beginning at 14 days. Hair club formation is abnormal. Cysts form from the hyperkeratotic upper part of hair canals and sheaths of abnormal follicles stranded in dermis. Some cysts also form from sebaceous glands. All cysts undergo sebaceous transformation and later keratinization. HRS/J mice, fed an ather...

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GENETIC OVERVIEW

Genetic Background

Generation

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Dermatology Research
Immunology, Inflammation and Autoimmunity Research
Cardiovascular Research
Mouse/Human Gene Homologs
Research Tools

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

Mice homozygous for the *hr* spontaneous mutation have a higher incidence and earlier onset of leukemia, reducible by virus-specific antibody. Deficiency of splenic T helper cells (Ly-1+) may account for low cellular immune response of homozygous mutant mice. The coat is normal on *hr/hr* mice up to 10 days but then hair is lost from the follicle. Waves of hair growth with few thin fuzzy hairs occur at monthly intervals for some time but homozygotes eventually become continuously hairless. Vibrissae are repeatedly regrown and shed, becoming more abnormal with age. Toenails are long and curved. There is hyperkeratosis of stratified epithelium and the upper part of hair canals beginning at 14 days. Hair club formation is abnormal. Cysts form from the hyperkeratotic upper part of hair canals and sheaths of abnormal follicles stranded in dermis. Some cysts also form from sebaceous glands. All cysts undergo sebaceous transformation and later keratinization. HRS/J mice, fed an atherogenic diet (1.25% cholesterol, 0.5% cholic acid and 15% fat), fail to develop atherosclerotic aortic lesions in contrast to several highly susceptible strains of mice (e.g. C57BL/6J, Stock No. 000664; C57L/J, Stock No. 000668, C57BR/cdJ, Stock No. 000667, and SM/J, Stock No. 000687).

Development

Control Suggestions

Genetics

Myo5a^d

Hr^{hr}

Ahr^{b-2}

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
Separated PCR:[Hr](#)

[Genotyping resources and troubleshooting](#)

Appearance

unpigmented, without hair

Related Genotype: $Typr1^b/Typr1^b$ Tyr^c/Tyr^c $Myo5a^d/Myo5a^d$ Hr^{hr}/Hr^{hr}

albino, unaffected

Related Genotype: $Typr1^b/Typr1^b$ Tyr^c/Tyr^c $Myo5a^d/Myo5a^d$ $Hr^{hr}/+$

Citation

When using the HRS/J mouse strain in a publication, please include JAX stock #000673 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

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
Cryo Recovery	Heterozygous and Homozygous for HR, 1 pair minimum	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	HRS/J Frozen Embryos	\$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.

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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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