LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.

Also Known As:LP

LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.

Also Known As:LP

LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.

Also Known As:LP

LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.

Also Known As:LP

LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.

Also Known As:LP

LP/J mice display a high susceptibility to audiogenic seizures, and have a fairly high incidence of tumors that develop later in life. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (EdnrB). The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye.
**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**

LP/J mice display a high susceptibility to audiogenic seizures. This strain is also reported to have a fairly high incidence of tumors that develop later in life, including mammary tumors, lymphoma, lung and soft-tissue sarcomas. LP/J mice are also homozygous for the spontaneous mutation piebald in the endothelin receptor type B gene (Ednrb<sup>5</sup>). The piebald spontaneous mutation is the result of a mutation in the endothelin receptor type B gene, Ednrb. Mice show irregular white spotting, the amount of which is greatly influenced by minor modifying genes. They also have dark eyes. The white areas of the coat are completely lacking in neural crest-derived melanocytes, and there is a reduction in the number of melanocytes in the choroid layer of the eye. Kanes et al (1993) found that this inbred strain is much less responsive to haloperidol than are other inbred strains, such as DBA/2J.

In 2019-2020, researchers at The Jackson Laboratory discovered this inbred strain contains the Trem2<sup>S148E</sup> allele - a naturally occurring variant at position 48351151-48351152 on Chr 17 (rs108080490 and rs107649577; Ensembl GRCm38.p6). This TC to GA transition results in a serine to glutamic acid substitution at amino acid 148 (S148E).
Genetics

- Disc1del
- Cdh23ahl
- Mx1st
- Ahrd
- Ednrbs
- Cox7a2l

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
- Phenotype Information
- References

Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information
LabDiet® 5K52/5K67
Breeding Considerations

This strain is a challenging breeder.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
white-bellied agouti, piebald

Related Genotype: $A^w/A^w$ $Ednrb^s/Ednrb^s$

Citation
When using the LP/J mouse strain in a publication, please include JAX stock #000676 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

MP13 (Maximum)

Pricing & Availability

Available Now
Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 weeks</td>
<td>Female</td>
<td>$210.04</td>
</tr>
<tr>
<td>3 weeks</td>
<td>Male</td>
<td>$195.80</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>$210.04</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Male</td>
<td>$195.80</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Female</td>
<td>$210.04</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Male</td>
<td>$195.80</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
<td>$213.49</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Male</td>
<td>$199.25</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Female</td>
<td>$216.94</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Male</td>
<td>$202.70</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Female</td>
<td>$220.39</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Male</td>
<td>$206.15</td>
</tr>
<tr>
<td>9 weeks</td>
<td>Female</td>
<td>$223.84</td>
</tr>
<tr>
<td>9 weeks</td>
<td>Male</td>
<td>$209.60</td>
</tr>
</tbody>
</table>
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.

Terms Of Use

Terms Of Use

General Terms and Conditions

Licensing Information

Phone: 207-288-6470
Email: 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