**SAMP1/YitFcsJ**

Stock No: 009355 | SAMP1/Fc

- Inbred Strain

**Also Known As: SAMP1/Fc, SAMP1/YitFc**

SAMP1/YitFcs mice develop a spontaneous ileitis that resembles human Crohn's disease. This strain may also be useful for the study of inflammatory bowel disease (IBD).

**Donating Investigator**

Marcia J McDuffie, University of Virginia Dept of Medicine

---

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F7xF20</td>
</tr>
<tr>
<td></td>
<td>(2018-02-08 00:00:00)</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

- Immunology, Inflammation and Autoimmunity Research
- Internal/Organ Research
- Dermatology Research

**BASE PRICE**

Starting at:

- $255.00 Domestic price for female
- $10.00 Domestic price for breeder pair

---
Details

Important Note
These SAMP1 mice have significant breeding difficulties. Please see the JAXMice Health & Husbandry section for the SAMP1 mice Colony Maintenance / Breeding & Husbandry description.

Detailed Description
SAMP1/YitFcs (also called SAMP1/YitFc or SAMP1/Fc) mice develop a spontaneous ileitis that is similar in many features to human Crohn's disease. Development of ileitis is accelerated by the presence of luminal bacteria and is characterized by discontinuous segmental inflammation involving the ileum while sparing the proximal small intestine and colon. The histopathologic features of SAMP1/Fc ileitis include transmural inflammation, crypt abscesses, and epithelial changes including loss of villi, crypt elongation, and crypt branching. SAMP1/Fc mice were originally distinguished from the strain from which they were derived (SAMP1/Yit) by spontaneous onset of ileum inflammation by 10 weeks of age at nearly 100% penetrance and the emergence of a perianal fistulizing disease not reported in the parental strain. Other distinguishing characteristics of the SAMP1/Fc substrain include incidence of skin lesions inversely correlated with the occurrence of intestinal inflammation, chronic ileitis with prominent muscular hypertrophy and focal collagen deposition in inflamed segments, activation of mesenteric lymph node lymphocytes coincident with ileitis progression, and high interferon- production preceding ileitis onset. Like other spontaneous models of inflammatory bowel disease, SAMP1/Fc mice maintained at higher health status/germ-free conditions may exhibit attenuated ileitis onset and severity compared to SAMP1/Fc mice maintained in lower health status-specific pathogen-free vivaria.

Development

Control Suggestions

Selected References

Genetics

Abcb1<sup>mds</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K54 formulation (4% fat)

Breeding Considerations
When maintaining a live colony, SAMP1/YitFcJ inbred mice are bred together. These inbred mice have significant breeding difficulties. The donating investigator reports:
--it is best to maintain the colony in trio-matings
--approximately 33% of trio-matings are nonproductive
--approximately 33% of trio-matings will only produce one litter
--productive matings produce approximately 2 litters total with an average of 4.8 mice per wean
--if females are not pregnant by 6 weeks of breeding, that female is unlikely to produce any litters
--the donating investigator does not set up mating pens until the mice are at least eight weeks old; even with this delayed mating, litters may not be observed for a few months
--seasonal breeding slumps starting in January may further diminish colony breeding success.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Citation
Animal Health Reports
When using the SAMP1/YitFcJ mouse strain in a publication, please include JAX stock #009355 in your Materials and Methods section.
Facility Barrier Level Descriptions
AX10 (Standard)

Pricing & Availability
2–4 week lead time for most orders depending on quantity and age range requested

Repository Live

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th></th>
<th></th>
</tr>
</thead>
</table>
| AGE | SEX | GENOTYPE | PRICE 
| Approx 4–8 weeks | Female | Not Applicable | $255.00
| | Male | Not Applicable | $255.00

<table>
<thead>
<tr>
<th>Breeder Pair</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SEX</td>
<td>GENOTYPE</td>
<td>PRICE</td>
</tr>
</tbody>
</table>
| Female | Not Applicable | $510.00
| Male | Not Applicable |
Related Products and Services

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</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

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

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

<table>
<thead>
<tr>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>By Allele</td>
</tr>
<tr>
<td>By Gene</td>
</tr>
<tr>
<td>By Collection</td>
</tr>
</tbody>
</table>

All Related Strains
Leading the search for
TOMORROW'S CURES