C57BL/6-Tg(CAG-OVA)916Jen/J

Stock No: 005145 | Act-mOVA

Transgenic

Available

PLACE ORDER

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

Also Known As: Act-mOVA

Ovalbumin expression in mice of this strain is detected immunohistochemically on the surfaces of cells of all organs and functions in skin-graft experiments as a minor histocompatibility antigen that triggers graft rejection by a mechanism involving both CD4 and CD8 T lymphocytes. This mutant mouse strain represents a model that may be useful in studies of adoptive transfer and graft rejection as source for tissue and cells expressing a defined minor histocompatibility antigen.

Donating Investigator

Marc Jenkins, University of Minnesota

READ MORE +

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N7→N25 (2019-06-12 00:00:00)</td>
<td></td>
</tr>
</tbody>
</table>

Tg(CAG-OVA)916Jen

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

Immunology, Inflammation and Autoimmunity Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS
Detailed Description

Mice that are hemizygous for the transgene are viable, normal in size and do not display any gross physical or behavioral abnormalities. These transgenic mice express the membrane bound chicken ovalbumin OVA gene under the direction of the chicken beta actin promoter coupled with the cytomegalovirus (CMV) immediate-early enhancer. Chicken ovalbumin expression is detected by immunohistochemical analysis of all tissues. Splenocytes from transgenic mice display the 254-267-K complex, which is recognized by T-cells from the transgenic strain C57BL/6-Tg(TcraTcrb)1100Mjb/J (Stock No. 3831) and the 323-339-I-A^B complex, which is recognized by T-cells from the transgenic C57BL/6-Tg(TcraTcrb)425Cbn/J (Stock No. 4194). Skin grafts from transgenic mice are rejected by C57BL/6 recipients. Ovalbumin antigen specific T cells can be tracked in vivo. This mutant mouse strain represents a model that may be useful in studies of adoptive transfer and graft rejection as source for tissue and cells expressing a defined minor histocompatibility antigen.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CAG-OVA)916Jen

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Separated PCR: Tg(CAG-OVA)916Jen-alternate1
Standard PCR: Tg(CAG-OVA)916Jen-alternate1
MELT: Tg(CAG-OVA)916Jen-alternate1
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
As preliminary attempts to make a homozygous colony at The Jackson Laboratory yielded smaller than normal homozygous males (September 2006), this strain is maintained by breeding hemizygotes to wildtype siblings or C57BL/6J mice.

Additional Breeding and Husbandry Support

Mating System
Hemizygote x +/+ sibling

Citation
When using the Act-OVA mouse strain in a publication, please cite the originating article(s) and include JAX stock #005145 in your Materials and Methods section.

Animal Health Reports
Facility barrier level descriptions
AX11 (Maximum)

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

### Domestic
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(CAG-OVA)916Jen</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Hemizygous for Tg(CAG-OVA)916Jen</td>
<td>$255.00</td>
</tr>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
</tbody>
</table>

### International

<table>
<thead>
<tr>
<th>BREEDER PAIR</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>Hemizygous for Tg(CAG-OVA)916Jen</td>
<td>$333.51</td>
</tr>
<tr>
<td>Male</td>
<td>Noncarrier</td>
<td>$333.51</td>
</tr>
<tr>
<td>Female</td>
<td>Noncarrier</td>
<td>$333.51</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
Leading the search for

TOMORROW'S CURES