B6.Cg-γc<sup>tm1Dcr</sup> Tg(FcGRt)32Dcr/DcrJ

Stock No: 014565 | FcRn-/- hFcRn (32) Tg

Congenic, Targeted Mutation, Transgenic

PLEASE INQUIRE

PLACE ORDER

Ask Customer Service for an anticipated lead time
Also Known As: FcRn<sup>−/−</sup> hFcRn (32) T, FcRn<sup>−/−</sup> hFcRn (32) Tg

FcRn<sup>−/−</sup> hFcRn line 32 Tg mice are useful in evaluating the pharmacokinetics and pharmacodynamics of human immunoglobulin G. These mice carry a null mutation for the mouse gene and a transgene expressing the human FcRn α-chain transgene under the control of its natural human promoter.

Need assistance evaluating antibodies in FcRn mice? Human preclinical pharmacokinetic (PK) analysis is available. See our FcRn full service platform.

Donating Investigator

Dr. Derry Roopenian, The Jackson Laboratory

---

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N11?+F30</td>
<td>(2019-07-16 00:00:00)</td>
</tr>
</tbody>
</table>

**Fcgr<sup>tm1Dcr</sup>**

- **Allele Type**: Targeted (Null/Knockout)
- **Gene Symbol**: Fcgr
- **Gene Name**: Fc receptor, IgG, alpha chain transporter

**Tg(FCGRT)32Dcr**

- **Allele Type**: Transgenic (Inserted expressed sequence, Humanized sequence)
FcRn−/− hFcRn (32) Tg mice harbor a knockout allele of the FcRn α-chain (Fcgrtm1Dcr) and express a human FcRn α-chain (FCGRT) transgene under control of the human FcRn promoter. In this line, serum albumin levels are slightly above those seen in C57BL/6J mice, while mouse IgG levels are low due to the species-specific activity of human FcRn. Line 32 is more efficient in prolonging the serum half-life of hIgG compared with line 276 (see Stock no. 004919). In Petkova et. al. 2006, the antibody half-life of Hu4D5-IgG1 antibodies in hemizygous hFcRn (32) Tg/0 mice of this strain is shown to be similar to that observed in FcRn−/− hFcRn (276) Tg/Tg homozygous mice (see Stock no. 004919). (Hu4D5-IgG1 human antibodies are directed against human EGFR2.) Mice hemizygous or homozygous for the hFcRn (32) Tg in this model may be useful for studying human FcRn biology and the behavior of IgG antibodies and Fc-domain proteins, including Fc-engineered molecules.
Genotyping Protocols
Standard PCR: Fcgrtm1Dcr
Standard PCR: Fcgrtm1Dcr
QPCR: Tg(FCGRT)
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, mice homozygous for the Fcgrtm1Dcr allele and homozygous for the Tg(FCGRT)32Dcr transgene can be bred together.

Additional Breeding and Husbandry Support
Mating System
See "Breeding Considerations"

Citation
When using the FcRn-/- hFcRn (32) Tg mouse strain in a publication, please cite the originating article(s) and include JAX stock #014565 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
- AX11 (Maximum)

Pricing & Availability
Ask Customer Service for an anticipated lead time

Domestic Pricing for
- Commercial & For-Profit
- Not-For-Profit & Academic

Live Mouse
### Related Products and Services

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Male</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Female</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Male</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Male</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Male</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Female</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Male</td>
<td>Homozygous for Fcgrt&lt;sup&gt;tm1Dcr&lt;/sup&gt;, Hemizygous for Tg(FCGRT)32Dcr</td>
<td>$2595.00</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

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.