B6.CFgoc-\textsuperscript{tm1Dcr} Tg (FCGR3 Tg) 32 Dcr / Dcr J

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

- Congenic
- Targeted Mutation
- Transgenic

AVAILABLE NOW

PLACE ORDER

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.
Also Known As: FcRn⁻/⁻ hFcRn (32) T, FcRn⁻/⁻ hFcRn (32) Tg

FcRn⁻/⁻ 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
Immune, Inflammation and Autoimmunity Research

Research Tools

Virology Research

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**BASE PRICE**

Starting at:

$425.00 Domestic price for female 4-week

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**Detailed Description**

FcRn-/- hFcRn (32) Tg mice harbor a knock-out 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.

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**Development**

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**Expression Data**

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**Control Suggestions**

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**Selected References**

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**Genetics**

**Fcgrtm1Dcr**

**Tg(FCGRT)32Dcr**

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**Disease/Phenotype**
Genotyping Protocols
Standard PCR: Fcgrt
Standard PCR: Fcgrt Alternate1
QPCR: Tg(FCGRT)-qPCR
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, mice homozygous for the $Fcgrt^{tm1Dcr}$ 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.

Pricing & Availability
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