This TALEN-mediated deletion in Alb results in the absence of any albumin protein in the blood. When combined with the knockout allele of the FcRn a-chain and a transgene expressing a human FcRn a-chain (FCGRT) under control of the human FcRn promoter, this albumin-deficient model may be useful for studying human serum albumin pharmacokinetics.

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

Donating Investigator
Michael Wiles, The Jackson Laboratory
Mice homozygous for the Alb\textsuperscript{em12Mvw}\textsuperscript{tm1Dcr}\textsuperscript{em8Mvw} allele lack albumin protein in their blood. FcRn/- hFcRn (32) Tg mice harbor a knockout allele of the Fc receptor, IgG, alpha chain transporter (Fcgrt\textsuperscript{em1Dcr}) and express a human FcRn a-chain (FCGRT) transgene under control of the human FcRn promoter. Mouse IgG levels are low due to the species-specific activity of human FcRn. Mice do not exhibit any gross abnormal phenotype. This albumin-deficient model may be useful for studying the biology and pathobiology of serum albumin as well as evaluating human albumin pharmacokinetics.

C57BL/6J-Alb\textsuperscript{em8Mvw}/MvwJ (Stock No. 025200) was generated as a control for this strain.
Genetics

- \( Fcgr\text{tm}^{1Dcr} \)
- \( Tg(FCGRT)32Dcr \)
- \( Alb^{em12Mw} \)

Disease/Phenotype

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

Technical Support

Genotyping Protocols
End Point Analysis: \( Alb-EP \)
Standard PCR: \( Fcgrt \)
Standard PCR: \( Fcgrt \text{Alternate}1 \)
QPCR: \( Tg(FCGRT)32Dcr \)
Probe: \( Tg(FCGRT)-\text{Chr2-Probe-alternate}1 \)
Standard PCR: \( Fcgrtm1Dcr \text{Alternate}1 \)

Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K20 formulation (10% fat)
Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes. Experience at The Jackson Laboratory indicates mating males and females homozygous for all 3 genes to be highly non-productive and litters produced often don't make it to wean. However, we have found that mating het, hom, hom x hom, hom, hom and reciprocal to consistently provide litters. It is not uncommon to lose the first litter.

Additional Breeding and Husbandry Support

Mating System

heterozygous for \( \text{Alb}^{\text{em12Mvw}} \), Homozygous for \( \text{Fcgrt}^{\text{tm1Dcr}} \), Homozygous for Tg(FCGRT)32Dcr x Homozygous for \( \text{Alb}^{\text{em12Mvw}} \), Homozygous for \( \text{Fcgrt}^{\text{tm1Dcr}} \), Homozygous for Tg(FCGRT)32Dcr

or

homozygous for \( \text{Alb}^{\text{em12Mvw}} \), Homozygous for \( \text{Fcgrt}^{\text{tm1Dcr}} \), Homozygous for Tg(FCGRT)32Dcr x Heterozygous for \( \text{Alb}^{\text{em12Mvw}} \), Homozygous for \( \text{Fcgrt}^{\text{tm1Dcr}} \), Homozygous for Tg(FCGRT)32Dc

Citation

When using the B6.Cg-Tg(FCGRT)32Dcr \( \text{Alb}^{\text{em12Mvw}} \text{ Fcgrt}^{\text{tm1Dcr}} \)/MvwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #025201 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

- AX12 (Maximum)

Pricing & Availability

Ask Customer Service for an anticipated lead time

Please Inquire

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

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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. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

Terms Of Use

TERMS OF USE

General Terms and Conditions

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LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection