These mice carry a floxed allele of Grk5. When bred to mice with a cre recombinase gene, exons 7 and 8 of the targeted gene are deleted in the cre-expressing tissues in the offspring mice. This strain may be useful in mechanistic studies of muscarinic receptors and Alzheimer's disease. 

Donating Investigator
Robert Lefkowitz, Duke University Medical Center
These mice possess loxP sites on either side of exons 7 and 8 of Grk5 (G protein-coupled receptor kinase 5). Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When bred to mice with a cre recombinase gene, exons 7 and 8 of the targeted gene are deleted in the cre-expressing tissues in the offspring mice. The floxed allele appears to be fully functional and expresses normal levels of GRK5 protein.

When bred to B6.FVB-Tg(Myh6-cre)2182Mds/J mice (Stock No. 011038) expressing Cre recombinase in cardiac muscle cells, offspring exhibit protection from cardiac hypertrophy following transverse aortic constriction.
Related Products and Services

Frozen Mouse Embryo  
B6.129S4-Grk5<tm2Rjl>/J Frozen Embryo  
$2595.00

Cryo Recovery  
Heterozygous for Grk5<tm2Rjl>  
$2,854.50

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

References

Technical Support

Genotyping Protocols
Standard PCR: Grk5
Genotyping resources and troubleshooting

Breeding Considerations
When maintained as a live colony, homozygotes or heterozygotes may be bred.

Additional Breeding and Husbandry Support

Citation
When using the B6.129S4-Grk5<tm2Rjl>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #010960 in your Materials and Methods section.

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
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.

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