STOCK Tfp2a ^tm2Will/J

Stock No: 023406 | Alflox

Targeted Mutation

CRYO RECOVERY

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

Also Known As: Alflox, AP-2 \textsuperscript{lox}

Floxed-AP-2alpha mutant mice possess loxP sites flanking exons 5-6 of the transcription factor AP-2, alpha (Tfp2a) gene. This strain may be useful for studying the developing neural tube.

Donating Investigator
Trevor Williams, University of Colorado, Denver

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GENETIC OVERVIEW

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<td>Tfp2a^{tm2Will}</td>
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Allele Type: Targeted (Conditional ready (e.g. floxed), No functional change)
Gene Symbol: Tfp2a
Gene Name: transcription factor AP-2, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Details

Detailed Description
These floxed-AP-2alpha mutant mice possess loxP sites flanking exons 5-6 of the transcription factor AP-2 gene. AP-2alpha is expressed in the neural tube, and in cranial and cardiac neural crest cells in the developing embryo, as well as in the progress zone of the limb bud, the developing kidney, the eye, and surface ectoderm. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exons 5-6 deleted in the cre-expressing tissues.

For example, when bred to B6.Cg-Tg(Wnt1-cre)11Rth Tg(Wnt1-GAL4)11Rth/J mice (Stock No. 009107) expressing Cre recombinase in the developing neural tube, offspring are perinatal lethal due neural tube closure defects and cleft secondary palate. Some mutant mice can survive into adulthood and exhibit retarded craniofacial growth, abnormal middle ear development, and defects in pigmentation.

When bred to FVB-Hhat^{Tg(TAP2A-cre)1Wil}/J mice (Stock No. 023407) expressing Cre recombinase in neural tube, and in cranial and cardiac neural crest cells in the developing embryo, offspring exhibit a combination of midfacial growth anomalies.

Development

Selected References

Genetics

Tfap2a^{m2Wil}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Ttap2a<sup>tm2Will</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

Citation
When using this mouse strain in a publication, please cite the originating article(s) and include JAX stock #023406 in your Materials and Methods section.
Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

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

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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Ttap2a&lt;sup&gt;tm2Will&lt;/sup&gt;</td>
<td>$2,595.00</td>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryo recovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services
Frozen Mouse Embryo $2,595.00 per straw or vial

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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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.

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