These mutant mice possess an engineered deletion spanning approximately 0.39 Mb on mouse Chromosome 7, a region that shares conserved synteny with the Autism spectrum disorders critical interval on human Chromosome 16. This mutant mouse may be useful in studying Autism and other associated disorders.

Donating Investigator

Dr. Alea A. Mills, Cold Spring Harbor Laboratory
GENETIC OVERVIEW

Genetic Background  Generation
F7+N17  F7+1N17
(2019-10-04 00:00:00)

Del(7SIX1b-Sept1)4Aam

Allele Type  Gene Symbol  Gene Name
Targeted (Null/Knockout)  Del(7SIX1b-Sept1)4Aam  deletion, Chr 7, Alea A Mills 4

RESEARCH APPLICATIONS

Neurobiology Research
Mouse/Human Gene Homologs
Developmental Biology Research

BASE PRICE
Starting at:

$278.00 Domestic price for female
317.17 Domestic price for breeder pair

Details

Detailed Description

These mutant mice possess an engineered deletion spanning approximately 0.39 Mb on mouse Chromosome 7. The region involved encompasses a chromosomal segment, between the GIY-YIG domain containing 2 (Giyd2) gene and the septin 1 (Sept1) loci, that shares conserved synteny with the Autism spectrum disorders critical interval on human Chromosome 16 (the 16p11.2 region). Mice homozygous for the deletion are embryonic lethal. Mice carrying one copy of the deletion prove to be viable, but do exhibit some postnatal lethality. It can be expected that approximately half of df/+ mice will be lost between birth and weaning. These mice exhibit neuroanatomical and behavioral phenotypes reminiscent of human autism. This mutant mouse may be useful in studying Autism and other associated disorders.

(Mice bearing the reciprocal duplication are also available (see Stock No. 013129))
Genotyping Protocols
Probe: Del(7Slx1b-Sept1)1Aam Probe
End Point Analysis: Disc1-EP
Standard PCR: Del(7Slx1b-Sept1)1Aam-Alternate 1
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, heterozygous mice are bred to B6129SF1/J mice (Stock No. 101043) each generation. On a B6;129 mixed genetic background, mice homozygous for the deletion are embryonic lethal. Mice carrying one copy of the deletion prove to be viable, but do exhibit some postnatal lethality. It can be expected that approximately half of df/+ mice will be lost between birth and weaning.

Additional Breeding and Husbandry Support
Mating System
F1 x Heterozygote

Citation
When using the 16p11.2 df mouse strain in a publication, please cite the originating article(s) and include JAX stock #013128 in your Materials and Methods section.

Facility Barrier Level Descriptions
FGB29 (Standard)
Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

Available

Live Mouse

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<th>AGE</th>
<th>SEX</th>
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<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Del(7Slx1b-Sept1)4Aam</td>
<td>$278.00</td>
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Breeder Pair

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Related Products and Services

| Frozen Mouse Embryo | B6129-S-Del(7Slx1b-Sept1)4Aam/J | $2595.00 |

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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Related Strains

| All
| By Allele
| By Gene
| By Collection

All Related Strains