C57BL/6J-Ankfn1^{nmf9/J}

**Stock No:** 004107 | Nmf9

Chemically Induced Mutation, Coisogenic

**CRYO RECOVERY**

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

**Also Known As:** Nmf9

These mice carry an ENU-induced mutation characterized by subtle head-nodding and vestibular dysfunction.

The Jackson Laboratory cannot guarantee that cryorecovery of strains from the discontinued NIH-funded Neuroscience Mutagenesis Facility (NMF) will be successful or that the anticipated phenotype or genotype will be obtained. The cryorecovery fee for this effort will not be refunded or prorated if the recovery is unsuccessful or is in any way unsatisfactory. Genotyping will be the responsibility of the Purchaser.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Ankfn1^{nmf9}**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Chemically induced (ENU) (Hypomorph)</td>
<td>Ankfn1</td>
<td>ankyrin-repeat and fibronectin type III domain containing 1</td>
</tr>
</tbody>
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**RESEARCH APPLICATIONS**

Neurobiology Research
Sensorineural Research

**BASE PRICE**

Starting at:

$2,856.50 Domestic price Cryo Recovery
The visible phenotype appears by weaning age (average age of onset 6 +/- 1.1 weeks; n=18) as variable and generally subtle head-nodding. Mutants of either gender have been produced. Nmf9 encodes a conserved protein that is functionally important to a distinct set of neurological phenotypes in both mice and Drosophila. Vestibular abnormalities are observed in addition to phenotypes in fear learning and circadian behavior. Nmf9 shows a complex pattern of expression in the vestibular system, olfactory system, and regions of the brain implicated in satiety and metabolism, innate anxiety, fear learning, and circadian rhythm. Females are more severely affected than males by the Nmf9 mutation. Mutations in the Nmf9 homologues of both mouse and fly result in phenotypes related to daily cycles of activity, as well as locomotor abnormalities. These mice may be useful in studies related to the evolutionary development of the nervous system.
Breeding Considerations
Homozygotes are viable and a colony could be maintained through homozygote or heterozygote matings.

Additional Breeding and Husbandry Support

Appearance
black
Related Genotype: a/a

Citation
When using the MLE mouse strain in a publication, please cite the originating article(s) and include JAX stock #004107 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

🌟
Cryo Recovery

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

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td><strong>Cryorecovery - Domestic Pricing</strong></td>
<td><strong>GENOTYPE</strong></td>
</tr>
<tr>
<td><strong>SERVICE</strong></td>
<td><strong>Unknown for nmf9</strong></td>
</tr>
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</table>

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.

Cryorecovery 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.

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.

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.
Terms Of Use

General Terms and Conditions

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

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