B6(Cg)-Chrna7^{tm1,Ehs}/YakeI-J

Stock No: 026965 | 7nAChR^{flox}

Targeted Mutation

PLACE ORDER

3-6 week lead time for most orders depending on quantity and age range requested

Overview

Also Known As: 7nAChR^{flox}

These floxed mutant mice possess loxP sites flanking exon 4 of the Chrna7 gene. This strain may be useful for generating conditional mutations in studies of possible therapeutic targets for cognitive defects and applications related to the cholinergic anti-inflammatory pathway.
Donating Investigator
Jerry Yakel, NIEHS/NIH

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N1+pN1</td>
</tr>
<tr>
<td></td>
<td>(2018-11-21 00:00:00)</td>
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</tbody>
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Chrna7<sup>tm1.1Ehs</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed))</td>
<td>Chrna7</td>
<td>cholinergic receptor, nicotinic, alpha polypeptide 7</td>
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</table>

RESEARCH APPLICATIONS

- Neurobiology Research
- Research Tools

BASE PRICE

Starting at:

- $263.00 Domestic price for female

Details

Detailed Description

The ligand-gated ion channel alpha7 nicotinic acetylcholine receptor, encoded by the Chrna7 gene, is widely expressed throughout the CNS in neurons and glial cells, and facilitates fast synaptic signal transmission. alpha7 nAChR is associated with epilepsy, Alzheimer’s disease and schizophrenia.

These mice possess loxP sites on either side of exon 4 of the targeted gene. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 4 deleted in the cre-expressing tissues. Deletion of exon 4 yields an unstable mRNA gene product.
When bred to a strain with Cre recombinase expression in astrocytes (see Stock No. 012887 or Stock No. 024098 for example), this mutant mouse strain may be useful in studies of attention, learning and memory.

Development

Control Suggestions

Selected References

Genetics

Chra7^tm1.Ehs

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
High Resolution Melting: Chra7^tm1.Ehs-Alternate 1
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using this Taq1B^flox mouse strain in a publication, please cite the originating article(s) and include JAX stock #026965 in your Materials and Methods section.
Facility Barrier Level Descriptions

AX12 (Maximum)
**Pricing & Availability**

3–6 week lead time for most orders depending on quantity and age range requested

**Domestic & International**  
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Chnn7^tm1.1Ehs</td>
<td>$263.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Chnn7^tm1.1Ehs</td>
<td>$263.00</td>
</tr>
</tbody>
</table>

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Terms of Use
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QUESTIONS ABOUT TERMS OF USE

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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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