B6.Cg-Cacna1c tm2hi/J

Additional Use Restrictions Apply

Stock No: 019547 | TS2-neo

Congenic, Targeted Mutation

Overview

Also Known As: G406R, TS2-neo

The TS2-neo mutation has the G406R mutation associated with severe Timothy Syndrome (TS2) and an inverted neomycin resistance cassette, all inserted at the end of exon 8 of the CaV1.2 L-type calcium channel locus (Cacna1c). Heterozygous TS2-neo mice exhibit several characteristics of autism spectrum disorder, including repetitive/perseverative stereotypical behavior, decreased social interaction, decreased communication/vocalization, enhanced fear memory and self-injurious scratching. These mice are useful in studying the autism spectrum disorder (ASD) characteristics of Timothy Syndrome.

Genetic overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<td>Cacna1c</td>
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Allele Type: Targeted (Humanized sequence, Null/Knockout)  
Gene Symbol: Cacna1c  
Gene Name: calcium channel, voltage-dependent, L type, alpha 1C subunit

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