FVB/N-Khdrbs2 Tg[LRRK2*R1441G135Cjii/J

Additional Use Restrictions Apply

Stock No: 009604 | LRRK2 R1441G

Coisogenic, Transgenic

Overview

Also Known As: LRRK2 R1441G, TG-RP135

In response to numerous reports questioning the hypokinetic phenotype of this strain, The Jackson Laboratory initiated behavioral testing on a cohort of 12 month old hemizygous FVB/N-Tg(LRRK2*R1441G)135Cjii/J and age matched controls. To date, we have been unable to validate the hypokinetic motor deficits reported for this strain. We have verified the transgene is expressed.

Mice hemizygous for the BAC LRRK2 (R1441G) transgene express a mutant form of human leucine-rich repeat kinase 2 (LRRK2*R1441G) associated with autosomal dominant, late-onset Parkinson’s disease directed by the human LRRK2 promoter/enhancer regions on the BAC transgene. These LRRK2 R1441G mice recapitulate the motor behavioral, neurochemical, and histopathological features of Parkinson’s disease and represent a robust in vivo model for studying the Parkinson’s disease pathogenesis and neurodegeneration elicited by the dominant toxic effects of mutant LRRK2 R1441G expression.

Genetic overview

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<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<td>Khdrbs2 Tg[LRRK2*R1441G135Cjii]</td>
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Allele Type

Transgenic (Humanized sequence, Inserted expressed sequence, Null/ Knockout)

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