B6.129S4-Prkn<sup>tm1Shn</sup>/J

Additional Use Restrictions Apply

Stock No: 006582 | parkin-

Congenic, Targeted Mutation

Overview

Also Known As: parkin-
Homozygous Parkinson disease (autosomal recessive, juvenile) 2, parkin (Prkntm1Shn) knock-out mice have increased extracellular dopamine concentration in the striatum, dysfunctional nigrostriatal pathways, and dysfunctional mitochondria. These mice model the exon 3 deletion mutation most common in human autosomal recessive juvenile parkinsonism patients and may be useful in studies of Parkinson's disease, dopamine regulation, nigrostriatal function, mitochondrial function, and other neurobiological research.

Genetic overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>N22 x N2F13</td>
<td>(08-AUG-18&lt;)</td>
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| Prkn<sup>tm1Shn</sup> | | |
|------------------------|-----------------------------|
| **Allele Type** | **Gene Symbol** | **Gene Name** |
| Targeted (Null/Knockout) | Prkn | parkin RBR E3 ubiquitin protein ligase |

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See mouse strain information online for current details

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