

## LRRK-2 Wild-type Mouse Animal Model (The Jackson Labs)

**Animal Model:**

LRRK-2 Wild-type Mouse

**Phenotype-Pathology:**

TBD

**Available Through:**

JAX Labs

**References:**

<http://jaxmice.jax.org/strain/013725.html>

**Strain Name:**

B6;SJL-Tg(LRRK2)<sup>66Youy/J</sup>

**Notes:**

Bacterial artificial chromosome (BAC) library was used to obtain a BAC containing the entire human hLRRK2 (leucine-rich repeat kinase 2) gene. This BAC also contained a frt-flanked neomycin selection (neo) cassette which was removed by induction of an arabinose Flp-recombinase. This BAC was microinjected into fertilized B6SJL F1 oocytes. These mice were maintained on a mixed B6SJL background. Upon arrival at The Jackson Laboratory, mice were bred to B6SJL F1/J mice (Stock No. 100012) for at least one generation to establish the colony. By Western blot, this line has been shown to express transgenic human protein at about 5-fold higher levels in the cortex and the striatum compared to the endogenous (mouse) LRRK2.

**Genotype:**

Hemizygous

**Strain Type:**

Transgenic

**Allele:**

Wild-type

**Expression Levels / Over****Endogenous:**

Approximately 10-fold

**Phenotype-Behavior:**

TBD

**Phenotype-Neurochemistry:**

TBD