C57BL/6J-Tg(LRRK2*G2019S)2AMjff/J

Stock No: 018785

Coisogenic, Transgenic

Mice hemizygous for the BAC LRRK2 (G2019S) transgene express a mutant form of human leucine-rich repeat kinase 2 (LRRK2*G2019S) associated with autosomal dominant, late-onset Parkinson’s disease directed by the human LRRK2 promoter/enhancer regions on the BAC transgene. These mice represent an in vivo model for studying the dominant toxic effects of mutant LRRK2*G2019S expression.

Donating Investigator
Kuldeep Dave, The Michael J. Fox Foundation

3–6 week average lead time depending on quantity and age requests are not accepted

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>N12pN2F7</td>
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<tr>
<td>(2018-07-27 00:00:00)</td>
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Tg(LRRK2*G2019S)2AMjff

Allele Type
Transgenic (Inserted expressed sequence, Humanized sequence)

RESEARCH APPLICATIONS
Neurobiology Research
Research Tools

VIEW GENETICS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Starting at:
Details

Detailed Description

Mice hemizygous for the BAC LRRK2 (G2019S) transgene are viable and fertile, with expression of a mutant form of human leucine-rich repeat kinase 2 (LRRK2*G2019S) associated with autosomal dominant, late-onset Parkinson’s disease directed by the human LRRK2 promoter/enhancer regions on the BAC transgene. These mice represent an in vivo model for studying the dominant toxic effects of mutant LRRK2*G2019S expression.

Distribution of this strain was supported by the Michael J. Fox Foundation for Parkinson’s Research.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(LRRK2*G2019S)2AMjff

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
QPCR: Tg(LRRK2)
MELT: Tg(LRRK2)
SEPARATED MELT: Tg(LRRK2*G2019S)2AMjff-Chr2
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) siblings or to C57BL/6J inbred mice (Stock No. 000664).
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Hemizygote x Noncarrier

Citation
When using the C57BL/6; Tg(LRRK2*G2019S)2AMjff/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #018785 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX12 (Maximum)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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| Live Mouse | | |
|------------|---|----------------|---|
| AGE | SEX | GENOTYPE | PRICE |
| Approx 4-8 weeks | Female | Hemizygous for Tg(LRRK2*G2019S)2AMjff | $271.00 |
| | Male | Hemizygous for Tg(LRRK2*G2019S)2AMjff | $271.00 |
| Approx 4-8 weeks | Female | Noncarrier | $76.22 |
| | Male | Noncarrier | $76.22 |

<table>
<thead>
<tr>
<th>Breeder Pair</th>
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<tr>
<td>SEX</td>
<td>GENOTYPE</td>
<td>PRICE</td>
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<tr>
<td>Female</td>
<td>Noncarrier</td>
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<tr>
<td>Male</td>
<td>Hemizygous for Tg(LRRK2*G2019S)2AMjff</td>
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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains