

**B6;129X1-Park7<sup>tm1Cai</sup>/Mmjax**

MMRRC Stock No: **32090-JAX**

 Targeted Mutation

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loss of body weight and may be useful in studies of Parkinson's disease.

### Donating Investigator

Huaibin Cai, National Institutes of Health / National Institute on Aging (NIH/NIA)

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## GENETIC OVERVIEW

Genetic Background

Generation

*Park7<sup>tm1Cai</sup>*

**Allele Type**

**Gene Symbol**

**Gene Name**

Targeted (Null/Knockout)

*Park7*

Parkinson disease (autosomal recessive, early onset) 7

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## ⊖ Details

### ⊖ Detailed Description

Homozygote: Mice that are homozygous for the targeted mutation exhibit non-progressive hypokinesia at 5 months of age and progressive gait abnormalities (stride uniformity, hind base displacement) beginning at two months of age. Mice over a year old develop decreased grip strength, loss of body weight and severe gait abnormalities. Although early onset progressive motor deficits occur in these mice, no pathological changes are observed in the nigrostriatal system, spinal motor system or muscles. This mutant mouse strain may be useful in studies of Parkinson's disease.

Heterozygote: Not evaluated

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### + Development

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### + Control Suggestions

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### + Selected References

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## ⊖ Genetics

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### + *Park7<sup>tm1Cai</sup>*

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## ⊖ Disease/Phenotype

### + Disease Terms

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### + Research Areas By Phenotype

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### + Mammalian Phenotype Terms by Genotype

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### + References

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## ⊖ Technical Support

## Genotyping Protocols

Standard PCR:[Park7](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

## Citation

When using the B6;129X1-*Park7*<sup>tm1Cai</sup>/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32090 in your Materials and Methods section.

## Animal Health Reports

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200*

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## THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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## LICENSING INFORMATION

Phone: 207-288-6470

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## Related Strains

All

By Allele

By Gene

By Collection



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