

B6.D1-*Pde10a*^{tm1Pfi} /JStock No: **008210** **Congenetic, Targeted Mutation**

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studies including metabolic inactivation of intracellular signal transduction pathways by cyclic phosphodiesterases (PDEs), regulation of information processing by basal ganglia circuitry, and striatal hypofunction or psychotic disease.

Donating Investigator

Frank S Menniti, Pfizer Inc

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GENETIC OVERVIEW

Genetic Background**Generation***Pde10a*^{tm1Pfi}**Allele Type**

Targeted (Null/Knockout)

Gene Symbol*Pde10a***Gene Name**

phosphodiesterase 10A

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Cell Biology Research
Neurobiology Research
Research Tools

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

– Details

– Detailed Description

Mice homozygous for the phosphodiesterase 10A (PDE10A) targeted mutation are viable and fertile with no gross abnormalities, although breeding homozygotes together produces reduced litter sizes. The targeted gene generates a truncated transcript. A small amount of functionally inactive protein is detected in striatum, cortex and cerebellum. Homozygous mice on the C57BL/6N genetic background (PDE10A^{C57}) exhibit multiple behavioral abnormalities; decreased locomotor activity when placed in a novel environment, delayed acquisition of conditioned avoidance response, blunted response to the NMDA receptor antagonist MK-801 (but not PCP), altered locomotor responses to both amphetamine and methamphetamine, and increased striatal dopamine utilization. These PDE10A^{C57} mutant mice may be useful in neurobiological studies including metabolic inactivation of intracellular signal transduction pathways by cyclic phosphodiesterases (PDEs), regulation of information processing by basal ganglia circuitry, and striatal hypofunction or psychotic disease.

+ Development

+ Control Suggestions

+ Selected References

– Genetics

+ *Pde10a*^{tm1Pfi}

– Disease/Phenotype

+ Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, or with C57BL/6NJ inbred mice (see Stock No. [005304](#)). As reduced pup production is observed, the donating investigator does not recommend maintaining the colony by breeding homozygous mice together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.D1-*Pde10a*^{tm1Pfl}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008210 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](#)

[- Pricing & Availability](#)



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Recovery

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SERVICE/PRODUCT	DESCRIPTION	PRICE

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.D1-Pde10a<tm1Pfi>/J Frozen Embryo

\$2595.00

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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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TERMS OF USE

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ADDITIONAL USE RESTRICTIONS APPLY

NOT AVAILABLE TO COMPANIES OR FOR COMMERCIAL
Use of MICE only available to non-profit entities.

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Phone: 207-288-6470

Email: TechTran@jax.org[Related Strains](#)

All

By Allele

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By Collection



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