The Jackson Laboratory

B6.CXB*d*e*6^{rd10}*/J FACUL

Stock No: 004297

🏷 Congenic,Spontaneous Mutation

AVAILABILITY VARIES

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⊖ Overview

Retinal degeneration 10 (*rd10*) is a spontaneous missense point mutation in *Pde6b* (cGMP phosphodiesterase 6B, rod receptor, beta polypeptide). Although similar to *rd1*, the *rd10* phenotype has a later onset and milder retinal degeneration and may provide a better experimental drug therapy model for retinitis pigmentosa.

READ MORE +

GENETIC OVERVIEW

Genetic Background	Generation
000664 C57BL/6J	N6F8 (2016-12-29 00:00:00)

Pde6b^{rd10}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Pde6b*	phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide

V I E W   G E N E T I C S

RESEARCH APPLICATIONS
Sensorineural Research

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

BASE PRICE
Starting at:

$151.83 Domestic price for female

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

⊖ Details

⊖ Detailed Description

Pde6b (cGMP phosphodiesterase 6B, rod receptor, beta polypeptide) encodes the beta subunit of phosphodiesterase (PDE), a peripheral membrane enzyme involved in the phototransduction cascade in rod photoreceptors. Mutations in PDE are associated with retinitis pigmentosa and night blindness. Mice homozygous for retinal degeneration 10 (*rd10*) exhibit sclerotic retinal vessels at 4 weeks of age, progressive retinal outer nuclear layer degeneration beginning at 16 days, and a progressive decline in rod and cone ERG a- and b- waves. Retinal degeneration is delayed by approximately a week in mice raised in total darkness. Although similar to *rd1*, the *rd10* phenotype has a later onset and milder retinal degeneration and may provide a better experimental drug therapy model for retinitis pigmentosa.

⊕ Development

⊕ Control Suggestions

⊖ Genetics

⊕ *Pde6b^{rd10}*

⊖ Disease/Phenotype

- ⊕ Disease Terms

- ⊕ Research Areas By Genotype

- ⊕ Mammalian Phenotype Terms by Genotype

- ⊕ References

⊖ Technical Support

<div>TECHNICAL S💬PPORT CHAT</div>

<div>CONTACT TECHNICAL SUPPORT</div>

Genotyping Protocols
Sanger sequencing:Pde6b^{rd10}
Genotyping resources and troubleshooting

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: *a/a*

Citation
Animal Health Reports
When using the B6.CXB1-*Pde6b*^{rd10}/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #004297 in your Materials and Methods section.

Facility Barrier Level Descriptions

📄 MGL277 (Low)

⊖ Pricing & Availability

Availability
Varies

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for Pde6b^{rd10}	$151.83
	Male	Homozygous for Pde6b^{rd10}	$151.83

Related Products and Services

| Frozen Mouse Embryo | B6.CXB1-Pde6b<rd10>/J Frozen Embryos | $2595.00 |

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Email: TechTran@jax.org

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⊖ Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

▲

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