STOCK *Crb1*^{rd8}/J FACULTY STRAIN

Stock No: **003392**

Spontaneous Mutation

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homozygous for the *rd8* allele exhibit a discontinuous and fragmented zona adherens, shortened photoreceptor inner and outer segments, and areas of retinal degeneration (retinal spotting).

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GENETIC OVERVIEW

Genetic Background	Generation
	N2N4F?+26 (2020-04-23 00:00:00)

Crb1^{rd8}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Crb1*	crumbs family member 1, photoreceptor morphogenesis associated

Cdh23^{ahl}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Cdh23*	cadherin 23 (otocadherin)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Sensorineural Research
Developmental Biology Research
Cell Biology Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$205.90 Domestic price for female

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Details

Important Note

The C57BL/6J background strain is homozygous for the age related hearing loss mutation *Cdh23*^{ahl} , which on this background results in progressive hearing loss with onset after 10 months of age.

Detailed Description

Crb1 (crumbs homolog 1 (Drosophila)) encodes a transmembrane protein that localizes to the apical membrane of epithelial cells and is involved cell polarity in the retina and in the assembly of zonula adherens. Mutations in CRB1 are associated with retinitis pigmentosa and Lebers congenital amaurosis. Mice homozygous for retinal degeneration 8 (*rd8*) exhibit a discontinuous and fragmented zona adherens, shortened photoreceptor inner and outer segments by 2 weeks of age, and large retinal spots. In contrast to phenotypes associated with other retinal degeneration alleles, retinal degeneration in *rd8* mutants is localized to the retinal spots. Within these spots, caused by retinal folds and pseudorosettes, retinal thinning in both the inner and outer nuclear layers is observed. The phenotype associated with *rd8* allele is variable depending on genetic background. On the C57BL/6 background, 19% of homozygotes do not exhibit retinal spotting.

Development

Control Suggestions

Selected References

Genetics

Crb1^{rd8}

Cdh23^{ahl}

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
- References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
End Point Analysis:Crb1End Point
Genotyping resources and troubleshooting

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: *a*/*a*

Citation
When using the STOCK *Crb1*^{rd8}/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003392 in your Materials and Methods section.

Animal Health Reports
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 Crb1^{rd8}	$205.90
	Male	Homozygous for Crb1^{rd8}	$205.90

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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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General Terms and Conditions

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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

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Did you find what you were looking for?

Yes No