

C57BL/6NJ-*Cdc5l*^{em1(IMPC)J}/Mmjax

MMRRC Stock No: **51166-JAX**

 Coisogenic, Endonuclease-Mediated Mutation

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the Knockout Mouse Phenotyping Program (KOMP²) at The Jackson Laboratory. *Cdc5l* encodes a DNA-binding protein involved in cell cycle control that may also act as a transcription activator.

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GENETIC OVERVIEW

Genetic Background

005304 C57BL/6NJ

Generation

Cdc5l^{em1(IMPC)J}

Alele Type

Endonuclease-mediated
(Null/Knockout)

Gene Symbol

Cdc5l

Gene Name

cell division cycle 5-like (S. pombe)

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

⊖ Detailed Description

This strain was generated by the Knockout Mouse Phenotyping Program ([KOMP³](#)) at The Jackson Laboratory using CRISPR technology. The targeted gene, cell division cycle 5-like (S. pombe) (*Cdc5l*), encodes a DNA-binding protein involved in cell cycle control that may also act as a transcription activator. The alteration resulted in the deletion of 344 bp in exon 4 and 344 bp of flanking intronic sequence, including the splice acceptor and donor, and is predicted to cause an early truncation after amino acid 104. As mice are characterized, phenotype data will be accessible on the [International Mouse Phenotyping Consortium](#) website.

+ Development

+ Control Suggestions

⊖ Genetics

+ *Cdc5l*^{em1(IMPC)J}

⊖ 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

End Point Analysis: [Smcx/Smcy-PROBE](#)

Probe: [Cdc5l](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes may be bred to C57BL/6NJ (Stock No. [005304](#)) or wildtype littermates. As mice are characterized, data related to viability and fertility will be provided on the [International Mouse Phenotyping Consortium](#) website.

Additional Breeding and Husbandry Support

Mating System

Heterozygote x Heterozygote

Citation

When using the C57BL/6NJ-*Cdc5l*^{em1(IMPC)J}/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #51166 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 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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Q U E S T I O N S A B O U T T E R M S O F U S E

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LICENSING INFORMATION

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Email: TechTran@jax.org

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