

B6.Cg-Vegfa^{tm3.1Pec}/Mmjax

MMRRC Stock No: **34405-JAX**

 Congenic, Targeted Mutation

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(*Vegfa^{tm3.1}*) isoform in contrast to impaired development in the VEGF¹²⁰ and VEGF¹⁸⁸ isoforms. This mutant mouse strain may be useful in studies of retinal vascular development.

Donating Investigator

Patricia D'Amore, Schepens Eye Research Institute

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GENETIC OVERVIEW

Genetic Background

Generation

Vegfa^{tm3.1Pec}

Alele Type

Targeted

Gene Symbol

Vegfa

Gene Name

vascular endothelial growth factor A

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Heterozygote: Normal. Heterozygote phenotype is similar to the wild-type phenotype.

Homozygote: Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Retinal vascular development and periendothelial cell recruitment appear normal in mice expressing the VEGF¹⁶⁴ isoform in contrast to impaired development in the VEGF¹²⁰ and VEGF¹⁸⁸ isoforms. This mutant mouse strain may be useful in studies of retinal vascular development.

Development

Control Suggestions

Selected References

Genetics

Vegfa^{tm3.1Pec}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR: [Vegfa](#)

[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.Cg-*Vegfa*^{tm3.1Pec}/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34405 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

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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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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