

FVB/N-Tg(HSV-Hoxd4)70Cka/Mmjax

MMRRC Stock No: **37488-JAX** | IE-Hoxd-4

 Coisogenic, Transgenic

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IE-Hoxd4 transresponder mice express *Hoxd4* under the control of the VP16-responsive immediate early (IE) promoter. Transgene expression is activated when a transresponder mouse is combined with a transactivator mouse carrying the viral coactivator VP16. This strain may be useful for studying developmental abnormalities associated with aberrant expression of *Hox* transcription factors.

Donating Investigator

Claudia Kappen, Pennington Biomedical Research Center

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(HSV-Hoxd4)70Cka

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

IE-Hoxd4 transresponder mice express the homeobox transcription factor *Hoxd4* under the control of the VP16-responsive immediate early (IE) promoter. *Hoxd4* expression is activated when a transresponder mouse is combined with a transactivator mouse carrying the viral coactivator VP16 under the control of a promoter of interest. Expression is limited to regions in the mouse embryo where VP16 is present. The *Hoxd4* expression also is activated in response to Herpes virus infection. Although female mice are viable and fertile, the transgene results in almost complete embryonic lethality in males suggesting that the integration site may be in a critical region on the X chromosome. Lethality occurs prior to E14.5. This strain may be useful for studying developmental abnormalities associated with aberrant expression of *Hox* transcription factors.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(HSV-Hoxd4)70Cka

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

Standard PCR: [Tg\(HSV-Hoxd4\)70Cka alternate2](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as hemizygous female to FVB/N male. The transgene results in almost complete embryonic lethality in males.

[Additional Breeding and Husbandry Support](#)

Mating System

Hemizygote x Inbred

Citation

When using the IE-Hoxd-4 mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #37488 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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