

A 7 bp, frame-shifting deletion in exon 1 of the Zfhx4 gene was generated using CRISPR/Cas9. Cas9+ embryos were obtained by crossing C57Bl6/J-Cas9 expressing mice with C57Bl6/N mice and injected with target-specific gRNAs. Donor males were 75% C57Bl6/J and 25% C57Bl6/N at cryopreservation.

Keywords: [Zfhx4](#) [Zfp](#) [zinc finger](#) [CRISPR](#) [NHEJ](#) [Knockout](#) [Mgn](#) [Magnuson](#)

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Mouse Information

| | |
|----------------------------|------------|
| Common Name | Zfhx4 |
| VCMR ID | ZP |
| Date Cryopreserved | 2019-05-07 |
| Method of Cryopreservation | Sperm |
| Trial IVF % Fertilization | 70.00% |

Genetic Alteration

| Mutation #1: Nuclease-Mediated | |
|--------------------------------|--|
| Allele | Name: zinc finger homeodomain 4; endonuclease mediated 1, Mark Magnuson Symbol: Zfhx4 ^{em1Mgn} |
| Zygoty at cryopreservation | Heterozygote |
| PCR Genotyping Protocol | Zfhx4_Genotyping_Protocol.docx |
| Citations | <i>Not provided</i> |

Background Strain Information

| | |
|---|---------------------|
| Strain Type | Inbred Strain |
| Chimera/Founder Genetic Background | C57Bl6/J x C57Bl6/N |
| Cryopreservation Strain Background (VCMR) | C57BL/6 |

Viability and Fertility Data

Viable and fertile

75% C57Bl6/J and 25% C57Bl6/N at cryopreservation.

Backcrossed one time onto C57Bl6/J background at cryopreservation.

Attachments



[Magnuson_Neogen_Analysis_Zfhx4.pdf](#) - Added on December 20, 2019 at 2:57 PM by [Jennifer Skelton](#)



[Zfhx4_gentotyping_8.1.18.pptx](#) - Added on August 30, 2019 at 1:24 PM by [Jennifer Skelton](#)
