129S1; Myo1a^{tm1Mtys}/Vu

VANDERBILT UNIVERSITY labnodes

A neo/ura3 fragment flanked by LoxP sites was used to replace the first three Myo1a exons via yeast-mediated homologous recombination. Absence of protein in mutants was confirmed by immunoblot of small intestines. Immunostaining of mutant duodenal sections with an antibody directed against the TH1 domain showed the expected lack of signal in mutants.

Keywords: Myosin 1A | Mtys | knockout

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Mouse Information

Common Name	Myosin1A KO
VCMR ID	OU
Date Cryopreserved	2013-01-11
Method of Cryopreservation	Sperm
Trial IVF % Fertilization	86.00%

Genetic Alteration

Mutation #1: Targeted Mutagenesis

Allele	Name: myosin IA; targeted mutation 1, Matthew J Tyska Symbol: Myo1a^{tm1Mtys} MGI: 3587749
Zygosity at cryopreservation	Homozygous
PCR Genotyping Protocol	Myo1A_Genotyping.docx
Citations	**Publication** Myosin-1a is critical for normal brush border structure and composition. (2005) *Mol Biol Cell* **16**: 2443-57 (Added 5/19/2014) PMID: 15758024

Background Strain Information

Strain Type	Mixed

Chimera/Founder Genetic Background	129S1/SvImJ
Cryopreservation Strain Background (VCMR)	129S1/SvImJ
Viability and Fertility Data	*Not provided*