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# Elovl5<sup>-/-</sup> mice

## IDENTIFICATION

Causal gene(s)	ELOVL5
Repeat size or mutation	Homozygous Elovl5 knock-out mice
Animal model	Mouse

## MODEL DETAILS

Mouse strain / background	C57BL/6J
Type of model	Knockout

## TRANSGENIC CONSTRUCT

Transgenic construct: details	ES cell clone (DTM098) harbors an insertion of gene trap vector 7.9 kb downstream of exon 1 of Elovl5 resulting in knock-out. ES cells were injected in mice blastocyst
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## PHENOTYPE

Hallmark features	Motor coordination impairment, disruption of cerebellar architecture, alterations in cerebellar excitatory presynaptic mechanisms
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## SOURCE & PUBLICATIONS

Originating lab / institution	University of Texas Southwestern Medical Center at Dallas
Links to publications or public resources	Deletion of ELOVL5 leads to fatty liver through activation of SREBP-1c in mice - PubMed <a href="https://pubmed.ncbi.nlm.nih.gov/18838740/">https://pubmed.ncbi.nlm.nih.gov/18838740/</a> Effects of the administration of Elovl5-dependent fatty acids on a spino-cerebellar ataxia 38 mouse model - PubMed <a href="https://pubmed.ncbi.nlm.nih.gov/35933444/">https://pubmed.ncbi.nlm.nih.gov/35933444/</a> Impact of Elovl5 Deficiency on Cerebellar Excitatory Synaptic Transmission in Mice - PubMed <a href="https://pubmed.ncbi.nlm.nih.gov/40789653/">https://pubmed.ncbi.nlm.nih.gov/40789653/</a>