

[Mouse Models](#)[EA1](#)[Publication](#)

# Emx1-Cre+/?; Kcna1del/?

## IDENTIFICATION

Causal gene(s)	KCNA1
Repeat size or mutation	Corticolimbic heterozygous Kcna1 conditional knockout mice
Animal model	Mouse

## MODEL DETAILS

Type of model	Knockout
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## TRANSGENIC CONSTRUCT

Transgenic construct: sequence type	obtained through cross-breeding
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## PHENOTYPE

Hallmark features	Premature death, epilepsy, ataxic-like breathing patterns
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## SOURCE & PUBLICATIONS

Originating lab / institution	Southern Methodist University
Links to publications or public resources	Seizures and premature death in mice with targeted Kv1.1 deficiency in corticolimbic circuits - PubMed <a href="https://pubmed.ncbi.nlm.nih.gov/39822954/">https://pubmed.ncbi.nlm.nih.gov/39822954/</a>