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

TRANSGENIC CONSTRUCT

Transgenic construct: sequence type	obtained through cross-breeding

PHENOTYPE

Hallmark features	Premature death, epilepsy, ataxic-like breathing patterns

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 https://pubmed.ncbi.nlm.nih.gov/39822954/