Mouse Models EA1 Publication

Kcna1V408A/+

IDENTIFICATION

Causal gene(s)	KCNA1
Repeat size or mutation	Heterozygous V408A mutation in the Kcna1 gene
Animal model	Mouse

MODEL DETAILS

Mouse strain / background	C57BL/6J
Type of model	Heterozygous V408A mutation in the Kcna1 gene

TRANSGENIC CONSTRUCT

Transgenic construct: sequence type	cDNA for murine Kv1.1 locus
Transgenic construct: details	A single nucleotide change resulting in the V408A mutation was introduced in the construct with the coding sequence of the murine Kv1.1 locus

PHENOTYPE

Hallmark features	Stress-induced loss of motor coordination, increased spontaneous GABAergic inhibitory postsynaptic currents

SOURCE & PUBLICATIONS

Originating lab / institution	Oregon Health & Sciences University
Links to publications or public resources	A mouse model of episodic ataxia type-1 - PubMed https://pubmed.ncbi.nlm.nih.gov/12612586/