Mouse Models SCA37 Biobank

Dab1 scrambler (scm) mice

IDENTIFICATION

Research Resource Identifier (RRID)	IMSR_JAX:002043
Causal gene(s)	DAB1
Repeat size or mutation	Spontaneous autosomal recessive mutation in Dab1
Animal model	Mouse

MODEL DETAILS

Mouse strain / background	DC/Le (dancer) and C3H
Type of model	Spontaneous mutation

TRANSGENIC CONSTRUCT

Transgenic construct: details	spontaneous mutation, with 1.5 kb of intracisternal A particle retrotransposon sequence inserted in Dab1 coding region, leading to abnormal splicing in Dab1 scm homozygotes

PHENOTYPE

Hallmark features	Unstable gait, whole-body tremor, disorganized cerebral cortical lamination, cerebellar hypoplasia without foliation

SOURCE & PUBLICATIONS

Originating lab / institution	The Jackson Laboratory
Links to publications or public resources	Scrambler, a new neurological mutation of the mouse with abnormalities of neuronal migration - PubMed https://pubmed.ncbi.nlm.nih.gov/8875886/ Aberrant splicing of a mouse disabled homolog, mdab1, in the scrambler mouse - PubMed https://pubmed.ncbi.nlm.nih.gov/9292716/ 002043 - Strain Details https://www.jax.org/strain/002043