

Syn2-KO

Nomenclature	C57BL/6Smoc- <i>Syn2</i> ^{em1Smoc}
Cat. NO.	NM-KO-201079
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Syn2	Synonyms	AI836018, AI841723, 2900074L19Rik
	NCBI ID	20965
	MGI ID	103020
	Ensembl ID	ENSMUSG00000009394
	Human Ortholog	SYN2

Model Description

Exon 2 of Syn2 gene was deleted to generate Syn2 knockout mice.

*Literature published using this strain should indicate: Syn2-KO mice (Cat. NO. NM-KO-201079) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Epilepsy	Phenotype(s)	MGI:5698534 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Syn1-KO(NM-KO-191042) and Syn3-KO(NM-KO-2112673) mice.
	Reference(s)	Ketzef M, Kahn J, Weissberg I, Becker AJ, Friedman A, Gitler D, Compensatory network alterations upon onset of epilepsy in synapsin triple knock-out mice. Neuroscience. 2011 Aug 25;189:108-22

Autism Spectrum Disorder	Phenotype(s)	MGI:5517484
	Reference(s)	Greco B, Manago F, Tucci V, Kao HT, Valtorta F, Benfenati F, Autism-related behavioral abnormalities in synapsin knockout mice. Behav Brain Res. 2013 Aug 15;251:65-74
Epilepsy	Phenotype(s)	MGI:3045985
	Reference(s)	Toader O, Forte N, Orlando M, Ferrea E, Raimondi A, Baldelli P, Benfenati F, Medrihan L, Dentate gyrus network dysfunctions precede the symptomatic phase in a genetic mouse model of seizures. Front Cell Neurosci. 2013;7:138

Validation Data

No data