

Syn1-KO

Nomenclature	C57BL/6Smoc- <i>Syn1</i> ^{em1Smoc}
Cat. NO.	NM-KO-191042
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Syn1	Synonyms	Syn-1, Syn1-S
	NCBI ID	20964
	MGI ID	98460
	Ensembl ID	ENSMUSG00000037217
	Human Ortholog	SYN1

Model Description

Exon 4 of Syn1 gene was deleted to generate Syn1 knockout mice.

Research Application: Nervous system, CNS synapse formation and transmission, X-linked disease (such as Rett syndrome)

*Literature published using this strain should indicate: Syn1-KO mice (Cat. NO. NM-KO-191042) 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 Syn2-KO(NM-KO-201079) 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:5517482
	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

Validation Data

No data