

Shank3-KO

Nomenclature	C57BL/6Smoc- <i>Shank3</i> ^{em1Smoc}
Cat. NO.	NM-KO-241043
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Shank3	Synonyms	Shank3b; AI841104; SHANK3c-3; SHANK3c-4
	NCBI ID	58234
	MGI ID	1930016
	Ensembl ID	ENSMUSG00000022623
	Human Ortholog	SHANK3

Model Description

The exon 4-9 of Shank3 gene was deleted to generate Shank3 knockout mouse.

*Literature published using this strain should indicate: Shank3-KO mice (Cat. NO. NM-KO-241043) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Autism Spectrum Disorder	Phenotype(s)	MGI:5285395
	Reference(s)	Bozdagi O, Sakurai T, Papapetrou D, Wang X, Dickstein DL, Takahashi N, Kajiwar Y, Yang M, Katz AM, Scattoni ML, Harris MJ, Saxena R, Silverman JL, Crawley JN, Zhou Q, Hof PR, Buxbaum JD, Haploinsufficiency of the autism-associated Shank3 gene leads to deficits in synaptic function, social interaction, and social communication. Mol Autism. 2010;1(1):15

Phelan-Mcdermid Syndrome	Phenotype(s)	MGI:6394127
	Reference(s)	Drapeau E, Riad M, Kajiwarra Y, Buxbaum JD, Behavioral Phenotyping of an Improved Mouse Model of Phelan-McDermid Syndrome with a Complete Deletion of the Shank3 Gene. eNeuro. 2018 May-Jun;5(3):ENEURO.0046-18.2018

Validation Data

No data