

Ncstn-Flox

Nomenclature	C57BL/6Smoc- <i>Ncstn</i> ^{em1(flox)Smoc}
Cat. NO.	NM-CKO-241011
Strain State	Developing

Gene Summary

Gene Symbol Ncstn	Synonyms	Nct; Aph2; AA727311; D1Dau13e; Kiaa0253; mKIAA0253; 9430068N19Rik
	NCBI ID	59287
	MGI ID	1891700
	Ensembl ID	ENSMUSG00000003458
	Human Ortholog	NCSTN

Model Description

These strains carry loxP sites flanking exon 3 of *Ncstn* gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Ncstn* gene.

*Literature published using this strain should indicate: *Ncstn*-Flox mice (Cat. NO. NM-CKO-241011) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Chronic Myeloid Leukemia	Phenotype(s)	MGI:5009037 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with VAV1-cre mice.
	Reference(s)	Klinakis A, Lobry C, Abdel-Wahab O, Oh P, Haeno H, Buonamici S, van De Walle I, Cathelin S, Trimarchi T, Araldi E, Liu C, Ibrahim S, Beran M, Zavadil J, Efstratiadis A, Taghon T, Michor F, Levine RL, Aifantis I, A novel tumour-suppressor function for the Notch pathway in myeloid leukaemia. Nature. 2011 May 12;473(7346):230-3

Urinary Bladder Cancer	Phenotype(s)	MGI:5779426 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Upk2-cre mice.
	Reference(s)	Rampias T, Vgenopoulou P, Avgeris M, Polyzos A, Stravodimos K, Valavanis C, Scorilas A, Klinakis A, A new tumor suppressor role for the Notch pathway in bladder cancer. Nat Med. 2014 Oct;20(10):1199-205
Schizophrenia	Phenotype(s)	MGI:5800496 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Olig1-Cre mice.
	Reference(s)	Dries DR, Zhu Y, Brooks MM, Forero DA, Adachi M, Cenik B, West JM, Han YH, Yu C, Arbella J, Nordin A, Adolfsson R, Del-Favero J, Lu QR, Callaerts P, Birnbaum SG, Yu G, Loss of Nicastrin from Oligodendrocytes Results in Hypomyelination and Schizophrenia with Compulsive Behavior. J Biol Chem. 2016 May 27;291(22):11647-56
Chronic Myeloid Leukemia	Phenotype(s)	MGI:5009036 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mx1-cre mice.
	Reference(s)	Klinakis A, Lobry C, Abdel-Wahab O, Oh P, Haeno H, Buonamici S, van De Walle I, Cathelin S, Trimarchi T, Araldi E, Liu C, Ibrahim S, Beran M, Zavadil J, Efstratiadis A, Taghon T, Michor F, Levine RL, Aifantis I, A novel tumour-suppressor function for the Notch pathway in myeloid leukaemia. Nature. 2011 May 12;473(7346):230-3

Validation Data

No data