Tsc2-Flox

Nomenclature	C57BL/6Smoc-*Tsc2*$^{tm1(flox)Smoc}$
Cat. NO.	NM-CKO-2102032
Strain State	Repository Live

Gene Summary

Gene Symbol **Tsc2**	**Synonyms**	Tcs2; Nafld
	NCBI ID	22084
	MGI ID	102548
	Ensembl ID	ENSMUSG00000002496
	Human Ortholog	TSC2

Model Description

These mice carry loxP sites flanking exon 3-5 of Tsc2 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Tsc2 gene.
*Literature published using this strain should indicate: Tsc2-Flox mice (Cat. NO. NM-CKO-2102032) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Uterine Fibroid	**Phenotype(s)**	MGI:5641710 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pgr-Cre mice.
	Reference(s)	Prizant H, Sen A, Light A, Cho SN, DeMayo FJ, Lydon JP, Hammes SR, Uterine-specific loss of Tsc2 leads to myometrial tumors in both the uterus and lungs. Mol Endocrinol. 2013 Sep;27(9):1403-14

Tuberous Sclerosis	**Phenotype(s)**	MGI:5140838 Note：The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pcp2-cre mice.
	Reference(s)	Reith RM, Way S, McKenna J 3rd, Haines K, Gambello MJ, Loss of the tuberous sclerosis complex protein tuberin causes Purkinje cell degeneration. Neurobiol Dis. 2011 Jul;43(1):113-22
tuberous sclerosis	**Phenotype(s)**	MGI:4880715 Note：The expected phenotype(s) may be observed in the above-mentioned mice that bred with GFAP-cre mice.
	Reference(s)	Zeng LH, Rensing NR, Zhang B, Gutmann DH, Gambello MJ, Wong M, Tsc2 gene inactivation causes a more severe epilepsy phenotype than Tsc1 inactivation in a mouse model of Tuberous Sclerosis Complex. Hum Mol Genet. 2011 Feb 1;20(3):445-54

Validation Data

No data