Nphs2-Flox

Nomenclature	C57BL/6Smoc-*Nphs2*$^{em1(flox)Smoc}$
Cat. NO.	NM-CKO-241788
Strain State	Developing

Gene Summary

Gene Symbol Nphs2	**Synonyms**	PDCN; SRN1
	NCBI ID	170484
	MGI ID	2157018
	Ensembl ID	ENSMUSG00000026602
	Human Ortholog	NPHS2

Model Description

These strains carry loxP sites flanking exon 2 of Nphs2 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Nphs2 gene.
*Literature published using this strain should indicate: Nphs2-Flox mice (Cat. NO. NM-CKO-241788) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Nephrotic Syndrome	**Phenotype(s)**	MGI:4847559 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CAG-cre mice.
	Reference(s)	Mollet G, Ratelade J, Boyer O, Muda AO, Morisset L, Lavin TA, Kitzis D, Dallman MJ, Bugeon L, Hubner N, Gubler MC, Antignac C, Esquivel EL, Podocin inactivation in mature kidneys causes focal segmental glomerulosclerosis and nephrotic syndrome. J Am Soc Nephrol. 2009 Oct;20(10):2181-9

nephrotic syndrome	**Phenotype(s)**	MGI:6316681 Note：The expected phenotype(s) may be observed in the above-mentioned mice that bred with CAG-cre mice.
	Reference(s)	Tabatabaeifar M, Wlodkowski T, Simic I, Denc H, Mollet G, Weber S, Moyers JJ, Bruhl B, Randles MJ, Lennon R, Antignac C, Schaefer F, An inducible mouse model of podocin-mutation-related nephrotic syndrome. PLoS One. 2017;12(10):e0186574

Validation Data

No data