

Hnf4a-Flox

系統名	C57BL/6Smoc- <i>Hnf4a</i> ^{tm1(flox)Smoc}
SMOC番号	NM-CKO-190062
維持形態	Sperm cryopreservation

遺伝子の概要

Gene Symbol Hnf4a	Synonyms	Hnf4; HNF-4; MODY1; Nr2a1; Tcf14; TCF-14; Hnf4alpha
	NCBI ID	15378
	MGI ID	109128
	Ensembl ID	ENSMUSG00000017950
	Human Ortholog	HNF4A

説明

These Hnf4a flox mice possess loxP sites flanking exon 2. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of the gene.

応用分野: Transcriptional regulator, insulin secretion related

*Literature published using this strain should indicate: Hnf4a-Flox mice (Cat. NO. NM-CKO-190062) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Fanconi Syndrome	表現型	MGI:6392256 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Six2-cre mice.
	参考文献	Marable SS, Chung E, Adam M, Potter SS, Park JS, Hnf4a deletion in the mouse kidney phenocopies Fanconi renotubular syndrome. JCI Insight. 2018 Jul 25;3(14)

Maturity-Onset Diabetes Of The Young Type 1	表現型	MGI:3653173 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ins2-cre mice.
	参考文献	Miura A, Yamagata K, Kakei M, Hatakeyama H, Takahashi N, Fukui K, Nammo T, Yoneda K, Inoue Y, Sladek FM, Magnuson MA, Kasai H, Miyagawa J, Gonzalez FJ, Shimomura I, Hepatocyte nuclear factor-4alpha is essential for glucose-stimulated insulin secretion by pancreatic beta-cells. J Biol Chem. 2006 Feb 24;281(8):5246-57

表現型データ

No data