G6pc-Flox

Nomenclature	C57BL/6Smoc-*G6pc*$^{em1(flox)Smoc}$
Cat. NO.	NM-CKO-200053
Strain State	Repository Live

Gene Summary

Gene Symbol **G6pc**	**Synonyms**	G6pt; G6Pase; AW107337; Glc-6-Pase
	NCBI ID	14377
	MGI ID	95607
	Ensembl ID	ENSMUSG00000078650
	Human Ortholog	G6PC1

Model Description

These mice carry loxP sites flanking exon 3 of G6pc gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of G6pc gene.

Research Application: Diseases associated with G6PC include Glycogen Storage Disease Ia and Hypoglycemia.

*Literature published using this strain should indicate: G6pc-Flox mice (Cat. NO. NM-CKO-200053) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Glycogen Storage Disease I	**Phenotype(s)**	MGI:5823404 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Kap-cre mice.
	Reference(s)	Clar J, Gri B, Calderaro J, Birling MC, Herault Y, Smit GP, Mithieux G, Rajas F, Targeted deletion of kidney glucose-6 phosphatase leads to nephropathy. Kidney Int. 2014 Oct;86(4):747-56

glycogen storage disease I	**Phenotype(s)**	MGI:5478556 Note：The expected phenotype(s) may be observed in the above-mentioned mice that bred with Alb-CreERT2 mice.
	Reference(s)	Mutel E, Abdul-Wahed A, Ramamonjisoa N, Stefanutti A, Houberdon I, Cavassila S, Pilleul F, Beuf O, Gautier-Stein A, Penhoat A, Mithieux G, Rajas F, Targeted deletion of liver glucose-6 phosphatase mimics glycogen storage disease type 1a including development of multiple adenomas. J Hepatol. 2011 Mar;54(3):529-37

Validation Data

No data