

Myocd-Flox

Nomenclature	C57BL/6Smoc- <i>Myocd</i> ^{em1(flox)Smoc}
Cat. NO.	TBD
Strain State	Developing

Gene Summary

Gene Symbol Myocd	Synonyms	Srfcp, BSAC2A
	NCBI ID	214384
	MGI ID	2137495
	Ensembl ID	ENSMUSG00000020542
	Human Ortholog	MYOCD

Model Description

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

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

Disease Connection

Patent Ductus Arteriosus	Phenotype(s)	MGI:3797716 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pax3-cre mice.
	Reference(s)	Huang J, Cheng L, Li J, Chen M, Zhou D, Lu MM, Proweller A, Epstein JA, Parmacek MS, Myocardin regulates expression of contractile genes in smooth muscle cells and is required for closure of the ductus arteriosus in mice. J Clin Invest. 2008 Feb;118(2):515-25

Dilated Cardiomyopathy	Phenotype(s)	MGI:5907042 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Myh6-cre mice.
	Reference(s)	Huang J, Min Lu M, Cheng L, Yuan LJ, Zhu X, Stout AL, Chen M, Li J, Parmacek MS, Myocardin is required for cardiomyocyte survival and maintenance of heart function. Proc Natl Acad Sci U S A. 2009 Nov 3;106(44):18734-9

Validation Data

No data