

# Stat3-Flox(2)

<b>Nomenclature</b>	C57BL/6Smoc- <i>Stat3</i> <sup>em1(flox)Smoc</sup>
<b>Cat. NO.</b>	NM-CKO-200225
<b>Strain State</b>	Sperm cryopreservation

## Gene Summary

<b>Gene Symbol</b> <b>Stat3</b>	<b>Synonyms</b>	Aprf; AW109958; 1110034C02Rik
	<b>NCBI ID</b>	<a href="#">20848</a>
	<b>MGI ID</b>	<a href="#">103038</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000004040</a>
	<b>Human Ortholog</b>	STAT3

## Model Description

These mice carry loxP sites flanking exon 18-20 of Stat3 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Stat3 gene. While Stat3-Flox(Stock No.NM-CKO-200050) mice carrying the loxP sites flanking exon 12-14 of Stat3 gene.

**Research Application:** Study on MicroRNA Correlation between FGFR1 Mutant Receptor Activation and Cardiac Hypertrophy

\*Literature published using this strain should indicate: Stat3-Flox(2) mice (Cat. NO. NM-CKO-200225) were purchased from Shanghai Model Organisms Center, Inc..

## Disease Connection

<b>inflammatory bowel disease</b>	<b>Phenotype(s)</b>	<a href="#">MGI:2683230</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tek-cre mice.
	<b>Reference(s)</b>	Kano A, Wolfgang MJ, Gao Q, Jacoby J, Chai GX, Hansen W, Iwamoto Y, Pober JS, Flavell RA, Fu XY, Endothelial cells require STAT3 for protection against endotoxin-induced inflammation. <i>J Exp Med.</i> 2003 Nov 17;198(10):1517-25

<b>inflammatory bowel disease</b>	<b>Phenotype(s)</b> <a href="#">MGI:3783296</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tek-cre mice.
<b>Peripartum Cardiomyopathy</b>	<b>Phenotype(s)</b> <a href="#">MGI:5906908</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Myh6-cre mice.
<b>Inflammatory Bowel Disease</b>	<b>Phenotype(s)</b> <a href="#">MGI:4429499</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Csf1r-icre mice.
	<b>Reference(s)</b> Hilfiker-Kleiner D, Kaminski K, Podewski E, Bonda T, Schaefer A, Sliwa K, Forster O, Quint A, Landmesser U, Doerries C, Luchtefeld M, Poli V, Schneider MD, Balligand JL, Desjardins F, Ansari A, Struman I, Nguyen NQ, Zschemisch NH, Klein G, Heusch G, Schulz R, Hilfiker A, Drexler H, A cathepsin D-cleaved 16 kDa form of prolactin mediates postpartum cardiomyopathy. <i>Cell.</i> 2007 Feb 9;128(3):589-600

## Validation Data

No data