

# Bdnf-Flox

<b>Nomenclature</b>	C57BL/6Smoc- <i>Bdnf</i> <sup>em1(flox)Smoc</sup>
<b>Cat. NO.</b>	NM-CKO-200064
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> Bdnf	<b>Synonyms</b>	-
	<b>NCBI ID</b>	<a href="#">12064</a>
	<b>MGI ID</b>	<a href="#">88145</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000048482</a>
	<b>Human Ortholog</b>	BDNF

## Model Description

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

**Research Application:** Research on ERK signaling pathway and Ras signaling pathway

\*Literature published using this strain should indicate: Bdnf-Flox mice (Cat. NO. NM-CKO-200064) were purchased from Shanghai Model Organisms Center, Inc..

## Disease Connection

<b>Rett Syndrome</b>	<b>Phenotype(s)</b>	<a href="#">MGI:5306255</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mecp2-Flox(NM-CKO-190001) and Camk2a-cre mice.
	<b>Reference(s)</b>	Chang Q, Khare G, Dani V, Nelson S, Jaenisch R, The disease progression of Mecp2 mutant mice is affected by the level of BDNF expression. Neuron. 2006 Feb 2;49(3):341-8

## Validation Data

No data

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