

Erb2-Flox

Nomenclature	C57BL/6Smoc- <i>Erb2</i> ^{em(flox)/Smoc}
Cat. NO.	NM-CKO-220557
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Erb2	Synonyms	Neu; HER2; HER-2; c-neu; Erb2-2; c-erbB2; l11Jus8; mKIAA3023
	NCBI ID	13866
	MGI ID	95410
	Ensembl ID	ENSMUSG00000062312
	Human Ortholog	ERBB2

Model Description

These mice carry loxP sites flanking exon 2 of *Erb2*. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Erb2* gene.

*Literature published using this strain should indicate: *Erb2*-Flox mice (Cat. NO. NM-CKO-220557) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Breast Cancer	Phenotype(s)	MGI:4839510 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with <i>Pten</i> -Flox(NM-CKO-18004) and MMTV-cre mice.
	Reference(s)	Dourdin N, Schade B, Lesurf R, Hallett M, Munn RJ, Cardiff RD, Muller WJ, Phosphatase and tensin homologue deleted on chromosome 10 deficiency accelerates tumor induction in a mouse model of ErbB-2 mammary tumorigenesis. <i>Cancer Res.</i> 2008 Apr 1;68(7):2122-31

Hirschsprung's Disease	Phenotype(s)	MGI:2654632 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Nes-cre mice.
	Reference(s)	Crone SA, Negro A, Trumpp A, Giovannini M, Lee KF, Colonic Epithelial Expression of ErbB2 Is Required for Postnatal Maintenance of the Enteric Nervous System. Neuron. 2003 Jan 9;37(1):29-40
Dilated Cardiomyopathy	Phenotype(s)	MGI:3621567 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Myl2-Cre mice.
	Reference(s)	Ozcelik C, Erdmann B, Pilz B, Wettschureck N, Britsch S, Hubner N, Chien KR, Birchmeier C, Garratt AN, Conditional mutation of the ErbB2 (HER2) receptor in cardiomyocytes leads to dilated cardiomyopathy. Proc Natl Acad Sci U S A. 2002 Jun 25;99(13):8880-5
Breast Cancer	Phenotype(s)	MGI:3714371 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with MMTV-cre mice.
	Reference(s)	Deblois G, Chahrour G, Perry MC, Sylvain-Drolet G, Muller WJ, Giguere V, Transcriptional control of the ERBB2 amplicon by ERRalpha and PGC-1beta promotes mammary gland tumorigenesis. Cancer Res. 2010 Dec 15;70(24):10277-87

Validation Data

No data