

Sox9-Flox

Nomenclature	C57BL/6Smoc- <i>Sox9</i> ^{tm1(flox)Smoc}
Cat. NO.	NM-CKO-200223
Strain State	Repository Live

Gene Summary

Gene Symbol Sox9	Synonyms	AV220920, mKIAA4243, 2010306G03Rik
	NCBI ID	20682
	MGI ID	98371
	Ensembl ID	ENSMUSG00000000567
	Human Ortholog	SOX9

Model Description

These mice carry loxP sites flanking exon 2-3 of Sox9 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Sox9 gene.

Research Application: Research on ERK signaling and Wnt signaling

*Literature published using this strain should indicate: Sox9-Flox mice (Cat. NO. NM-CKO-200223) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Campomelic Dysplasia	Phenotype(s)	MGI:3817221 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pdx1-cre mice.
	Reference(s)	Seymour PA, Freude KK, Dubois CL, Shih HP, Patel NA, Sander M, A dosage-dependent requirement for Sox9 in pancreatic endocrine cell formation. Dev Biol. 2008 Nov 1;323(1):19-30

campomelic dysplasia	Phenotype(s)	MGI:2451169 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Col2a1-cre mice.
	Reference(s)	Akiyama H, Chaboissier MC, Martin JF, Schedl A, De Crombrughe B, The transcription factor Sox9 has essential roles in successive steps of the chondrocyte differentiation pathway and is required for expression of Sox5 and Sox6. Genes Dev. 2002 Nov 1;16(21):2813-28

Validation Data

No data