

Sox9-Flox

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

Gene Summary

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| 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

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| 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 |

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| 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