

Apoe-KO(2)

Nomenclature	C57BL/6Smoc- <i>Apoe</i> ^{em5Smoc}
Cat. NO.	NM-KO-190565
Strain State	Repository Live

Gene Summary

Gene Symbol Apoe	Synonyms	Apo-E; AI255918
	NCBI ID	11816
	MGI ID	88057
	Ensembl ID	ENSMUSG000000002985
	Human Ortholog	APOE

Model Description

Apoe-KO(2) mice (Stock No.NM-KO-190565) carry a knockout allele derived from the targeted deletion of exon 2-4. While Apoe-KO mice (Stock No.NM-KO-00033) have been pulled from shelves for some reasons.

Research Application: Atherosclerosis,hyperlipidemia,hypercholesterolemia,cerebral infarction,AD,chronic hepatitis etc.

*Literature published using this strain should indicate: Apoe-KO(2) mice (Cat. NO. NM-KO-190565) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Coronary Artery Disease	Phenotype(s)	MGI:5558016 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Scarb1-KO(NM-KO-201876) mice.
	Reference(s)	Tsukamoto K, Mani DR, Shi J, Zhang S, Haagenen DE, Otsuka F, Guan J, Smith JD, Weng W, Liao R, Kolodgie FD, Virmani R, Krieger M, Identification of apolipoprotein D as a cardioprotective gene using a mouse model of lethal atherosclerotic coronary artery disease. Proc Natl Acad Sci U S A. 2013 Oct 15;110(42):17023-8

Familial Combined Hyperlipidemia	Phenotype(s)	MGI:4354296 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Lpl-KO(NM-KO-201300) mice.
	Reference(s)	Xian X, Ding Y, Zhang L, Wang Y, McNutt MA, Ross C, Hayden MR, Deng X, Liu G, Enhanced atherothrombotic formation after oxidative injury by FeCl ₃ to the common carotid artery in severe combined hyperlipidemic mice. Biochem Biophys Res Commun. 2009 Aug 7;385(4):563-9
Abdominal Obesity-Metabolic Syndrome	Phenotype(s)	MGI:5428435 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Cyp19A1-KO(NM-KO-2102244) mice.
	Reference(s)	Scott NJ, Cameron VA, Raudsepp S, Lewis LK, Simpson ER, Richards AM, Ellmers LJ, Generation and characterization of a mouse model of the metabolic syndrome: apolipoprotein E and aromatase double knockout mice. Am J Physiol Endocrinol Metab. 2012 Mar;302(5):E576-84

Validation Data

No data