

# ApoE-KO(2)

<b>Nomenclature</b>	C57BL/6Smoc- <i>ApoE</i> <sup>em5Smoc</sup>
<b>Cat. NO.</b>	NM-KO-190565
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> <b>ApoE</b>	<b>Synonyms</b>	Apo-E; AI255918
	<b>NCBI ID</b>	<a href="#">11816</a>
	<b>MGI ID</b>	<a href="#">88057</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000002985</a>
	<b>Human Ortholog</b>	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

<b>Coronary Artery Disease</b>	<b>Phenotype(s)</b>	<a href="#">MGI:5558016</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Scarb1-KO(NM-KO-201876) mice.
	<b>Reference(s)</b>	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
<b>Familial Combined Hyperlipidemia</b>	<b>Phenotype(s)</b>	<a href="#">MGI:4354296</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Lpl-KO(NM-KO-201300) mice.
	<b>Reference(s)</b>	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 FeCl3 to the common carotid artery in severe combined hyperlipidemic mice. Biochem Biophys Res Commun. 2009 Aug 7;385(4):563-9
<b>Abdominal Obesity-Metabolic Syndrome</b>	<b>Phenotype(s)</b>	<a href="#">MGI:5428435</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Cyp19A1-KO(NM-KO-2102244) mice.
	<b>Reference(s)</b>	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