

Aire-KO

Nomenclature	C57BL/6Smoc- <i>Aire</i> ^{em1Smoc}
Cat. NO.	NM-KO-2112347
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Aire	Synonyms	-
	NCBI ID	11634
	MGI ID	1338803
	Ensembl ID	ENSMUSG00000000731
	Human Ortholog	AIRE

Model Description

Exon 8 of Aire gene was deleted to generate Aire knockout mice.

*Literature published using this strain should indicate: Aire-KO mice (Cat. NO. NM-KO-2112347) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Sjogren's Syndrome	Phenotype(s)	MGI:5428441 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Il1r1-KO(2)(NM-KO-191194) mice.
	Reference(s)	Chen YT, Nikulina K, Lazarev S, Bahrami AF, Noble LB, Gallup M, McNamara NA, Interleukin-1 as a phenotypic immunomodulator in keratinizing squamous metaplasia of the ocular surface in Sjogren's syndrome. Am J Pathol. 2010 Sep;177(3):1333-43

Autoimmune Polyendocrine Syndrome Type 1	Phenotype(s)	MGI:2182941
	Reference(s)	Ramsey C, Winqvist O, Puhakka L, Halonen M, Moro A, Kampe O, Eskelin P, Pelto-Huikko M, Peltonen L, Aire deficient mice develop multiple features of APECED phenotype and show altered immune response. Hum Mol Genet. 2002 Feb 15;11(4):397-409
Sjogren's Syndrome	Phenotype(s)	MGI:3576479
	Reference(s)	Kuroda N, Mitani T, Takeda N, Ishimaru N, Arakaki R, Hayashi Y, Bando Y, Izumi K, Takahashi T, Nomura T, Sakaguchi S, Ueno T, Takahama Y, Uchida D, Sun S, Kajiura F, Mouri Y, Han H, Matsushima A, Yamada G, Matsumoto M, Development of autoimmunity against transcriptionally unrepressed target antigen in the thymus of Aire-deficient mice. J Immunol. 2005 Feb 15;174(4):1862-70

Validation Data

No data