

Mc4r-KO

Nomenclature	C57BL/6Smoc- <i>Mc4r</i> ^{em1Smoc}
Cat. NO.	NM-KO-200357
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Mc4r	Synonyms	Pkcp, Mc4-r
	NCBI ID	17202
	MGI ID	99457
	Ensembl ID	ENSMUSG00000047259
	Human Ortholog	MC4R

Model Description

Exon 1 of Mc4r gene was deleted to generate Mc4r knockout mice.

Research Application: Therapeutic antibody target

*Literature published using this strain should indicate: Mc4r-KO mice (Cat. NO. NM-KO-200357) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

obesity	Phenotype(s)	MGI:3579026
	Reference(s)	Huszar D, et al., Targeted disruption of the melanocortin-4 receptor results in obesity in mice. Cell. 1997 Jan 10;88(1):131-41
Non-Alcoholic Steatohepatitis	Phenotype(s)	MGI:6405042
	Reference(s)	Matsumoto M, et al., Acetyl-CoA carboxylase 1 and 2 inhibition ameliorates steatosis and hepatic fibrosis in a MC4R knockout murine model of nonalcoholic steatohepatitis. PLoS One. 2020;15(1):e0228212

Validation Data

No data
