

Mc3r-KO

Nomenclature	C57BL/6Smoc- <i>Mc3R</i> ^{em1Smoc}
Cat. NO.	NM-KO-190652
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Mc3r	Synonyms	MC3-R
	NCBI ID	17201
	MGI ID	96929
	Ensembl ID	ENSMUSG00000038537
	Human Ortholog	MC3R

Model Description

Exon 1 of Mc3r gene was deleted to generate Mc3r knockout mice.

Research Application: obesity

*Literature published using this strain should indicate: Mc3r-KO mice (Cat. NO. NM-KO-190652) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Obesity	Phenotype(s)	MGI:3850836 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mc4r-KO(2)(NM-KO-205021) mice.
	Reference(s)	Chen AS, Marsh DJ, Trumbauer ME, Frazier EG, Guan XM, Yu H, Rosenblum CI, Vongs A, Feng Y, Cao L, Metzger JM, Strack AM, Camacho RE, Mellin TN, Nunes CN, Min W, Fisher J, Gopal-Truter S, MacIntyre DE, Chen HY, Van Der Ploeg LH, Inactivation of the mouse melanocortin-3 receptor results in increased fat mass and reduced lean body mass. Nat Genet. 2000 Sep;26(1):97-102

obesity	Phenotype(s)	MGI:3639354
	Reference(s)	Butler AA, Kesterson RA, Khong K, Cullen MJ, Pellemounter MA, Dekoning J, Baetscher M, Cone RD, A unique metabolic syndrome causes obesity in the melanocortin-3 receptor-deficient mouse. Endocrinology. 2000 Sep;141(9):3518-21

Validation Data

No data