

Mc4r-KO(2)

品系全名	C57BL/6Smoc- <i>Mc4r</i> ^{em1Smoc}
目录号	NM-KO-205021
品系状态	胚胎冻存

基因信息

基因名 Mc4r	基因曾用名	Pkcp; Mc4-r
	NCBI ID	17202
	MGI ID	99457
	Ensembl ID	ENSMUSG000000047259
	人类同源基因	MC4R

品系描述

利用CRISPR基因编辑技术，敲除Mc4r基因exon 1，建立Mc4r基因敲除小鼠模型。

*使用本品系发表的文献需注明: Mc4r-KO(2) mice (Cat. NO. NM-KO-205021) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

非酒精性脂肪性肝炎 Non-Alcoholic Steatohepatitis	近似模型的表型	MGI:6405042
	参考文献	Matsumoto M, Yashiro H, Ogino H, Aoyama K, Nambu T, Nakamura S, Nishida M, Wang X, Erion DM, Kaneko M, 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

肥胖 Obesity	近似模型的表型	MGI:3579026
	参考文献	Huszar D, Lynch CA, Fairchild-Huntress V, Dunmore JH, Fang Q, Berkemeier LR, Gu W, Kesterson RA, Boston BA, Cone RD, Smith FJ, Campfield LA, Burn P, Lee F, Targeted disruption of the melanocortin-4 receptor results in obesity in mice. Cell. 1997 Jan 10;88(1):131-41
肥胖 Obesity	近似模型的表型	MGI:3850836 注：该品系需与Mc3r-KO(NM-KO-190652)交配才可能获得预期表型
	参考文献	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

验证数据

暂无数据