

Slc34a1-KO

品系全名	C57BL/6Smoc- <i>Slc34a1</i> ^{em1Smoc}
目录号	NM-KO-200642
品系状态	胚胎冻存

基因信息

基因名 Slc34a1	基因曾用名	Npt2, Npt2a, Slc17a2, NaPi-IIa
	NCBI ID	20505
	MGI ID	1345284
	Ensembl ID	ENSMUSG00000021490
	基因标记细胞类型举例	肾脏近端小管细胞
	人类同源基因	SLC34A1
	人类同源基因关联疾病	骨质疏松症、成人范科尼综合症

品系描述

敲除Slc34a1基因exon 2-4，建立Slc34a1基因敲除小鼠模型。

应用领域：矿物质吸收和甲状旁腺激素的合成相关研究

*使用本品系发表的文献需注明: Slc34a1-KO mice (Cat. NO. NM-KO-200642) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

遗传性低磷性佝偻病伴高钙尿症 Hereditary Hypophosphatemic Rickets With Hypercalciuria	近似模型的表型	MGI:3029314
	参考文献	Beck L, Karaplis AC, Amizuka N, Hewson AS, Ozawa H, Tenenhouse HS, Targeted inactivation of Npt2 in mice leads to severe renal phosphate wasting, hypercalciuria, and skeletal abnormalities. Proc Natl Acad Sci U S A. 1998 Apr 28;95(9):5372-7

遗传性低磷性佝偻病伴高钙尿症 Hereditary Hypophosphatemic Rickets With Hypercalciuria	近似模型的表型	MGI:4359221 注：该品系需与Slc34A3-KO(NM-KO-2105936)交配才可能获得预期表型
	参考文献	Segawa H, Onitsuka A, Furutani J, Kaneko I, Aranami F, Matsumoto N, Tomoe Y, Kuwahata M, Ito M, Matsumoto M, Li M, Amizuka N, Miyamoto K, Npt2a and Npt2c in mice play distinct and synergistic roles in inorganic phosphate metabolism and skeletal development. Am J Physiol Renal Physiol. 2009 Sep;297(3):F671-8

验证数据

暂无数据