

Zmpste24-KO

系統名	C57BL/6Smoc- <i>Zmpste24</i> ^{em1Smoc}
SMOC番号	NM-KO-18011
維持形態	Repository Live

遺伝子の概要

Gene Symbol Zmpste24	Synonyms	MADB; FACE1; STE24; Face-1; Ste24p; D030046F19; A530043O15Rik
	NCBI ID	230709
	MGI ID	1890508
	Ensembl ID	ENSMUSG00000043207
	Human Ortholog	ZMPSTE24

説明

Exon4-6 of *Zmpste24* gene were deleted to generate *Zmpste24* knockout mice.

応用分野: premature aging disease Hutchinson-Gilford progeria syndrome (HGPS)

*Literature published using this strain should indicate: *Zmpste24*-KO mice (Cat. NO. NM-KO-18011) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Achalasia	表現型	MGI:5754490 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with <i>Lmna</i> -KO(NM-KO-210380) mice.
	参考文献	Yang SH, Procaccia S, Jung HJ, Nobumori C, Tatar A, Tu Y, Bayguinov YR, Hwang SJ, Tran D, Ward SM, Fong LG, Young SG, Mice that express farnesylated versions of prelamin A in neurons develop achalasia. <i>Hum Mol Genet.</i> 2015 May 15;24(10):2826-40

Familial Partial Lipodystrophy	表現型	MGI:3621007
	参考文献	Pendas AM, Zhou Z, Cadinanos J, Freije JM, Wang J, Hultenby K, Astudillo A, Wernerson A, Rodriguez F, Tryggvason K, Lopez-Otin C, Defective prelamin A processing and muscular and adipocyte alterations in Zmpste24 metalloproteinase-deficient mice. Nat Genet. 2002 May;31(1):94-9
Progeria	表現型	MGI:3620907
	参考文献	Fong LG, Ng JK, Meta M, Cote N, Yang SH, Stewart CL, Sullivan T, Burghardt A, Majumdar S, Reue K, Bergo MO, Young SG, Heterozygosity for Lmna deficiency eliminates the progeria-like phenotypes in Zmpste24-deficient mice. Proc Natl Acad Sci U S A. 2004 Dec 28;101(52):18111-6

表現型データ

No data