

Fhit-KO

Nomenclature	C57BL/6Smoc- <i>Fhit</i> ^{em1Smoc}
Cat. NO.	NM-KO-190624
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Fhit	Synonyms	Fra14A2, AW045638
	NCBI ID	14198
	MGI ID	1277947
	Ensembl ID	ENSMUSG00000060579
	Human Ortholog	FHIT

Model Description

Exon 4 of Fhit gene was deleted to generate Fhit knockout mice.

Research Application: The protein encoded by this gene is a P1-P3-bis(5'-adenosyl) triphosphate hydrolase involved in purine metabolism. In fact, aberrant transcripts from this gene have been found in about half of all esophageal, stomach, and colon carcinomas. The encoded protein is also a tumor suppressor, as loss of its activity results in replication stress and DNA damage.

*Literature published using this strain should indicate: Fhit-KO mice (Cat. NO. NM-KO-190624) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Muir-Torre Syndrome	Phenotype(s)	MGI:3029765
	Reference(s)	Fong LY, Fidanza V, Zanesi N, Lock LF, Siracusa LD, Mancini R, Siprashvili Z, Ottey M, Martin SE, Druck T, McCue PA, Croce CM, Huebner K, Muir-torre-like syndrome in fhit-deficient mice. Proc Natl Acad Sci U S A. 2000 Apr 25;97(9):4742-7

Validation Data

No data
