

F8-KO

Nomenclature	B6.129S- <i>F8</i> ^{tm1Smoc}
Cat. NO.	NM-KO-00012
Strain State	Repository Live

Gene Summary

Gene Symbol F8	Synonyms	Cf8; Cf-8; FVIII
	NCBI ID	14069
	MGI ID	88383
	Ensembl ID	ENSMUSG00000031196
	Human Ortholog	F8

Model Description

F8-KO mice (Stock No.NM-KO-00012) carry a knockout allele derived from the targeted deletion of exon 16-19. While F8-KO(2) mice (Stock No.NM-KO-200608) carrying the exon 1-26 deletion.

Research Application: Hemophilia A;HEMA

*Literature published using this strain should indicate: F8-KO mice (Cat. NO. NM-KO-00012) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Factor VIII Deficiency	Phenotype(s)	MGI:2449544
	Reference(s)	Bi L, Lawler AM, Antonarakis SE, High KA, Gearhart JD, Kazazian HH Jr, Targeted disruption of the mouse factor VIII gene produces a model of haemophilia A [letter]. Nat Genet. 1995 May;10(1):119-21

Validation Data

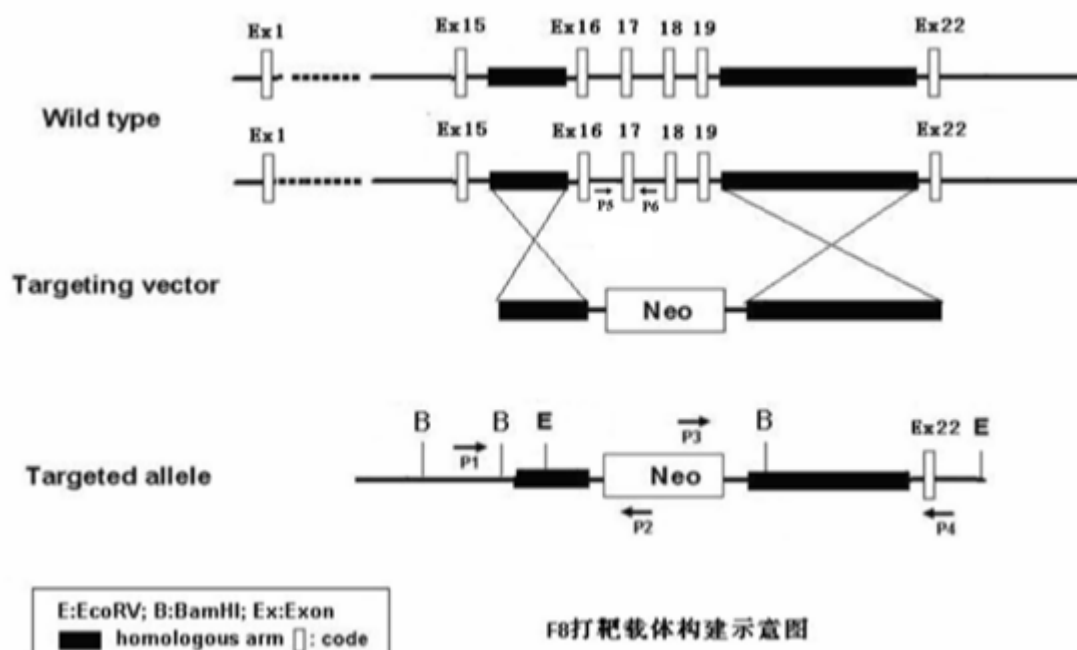


Fig 1. Schematic diagram for the F8 gene knockout mice generation strategy

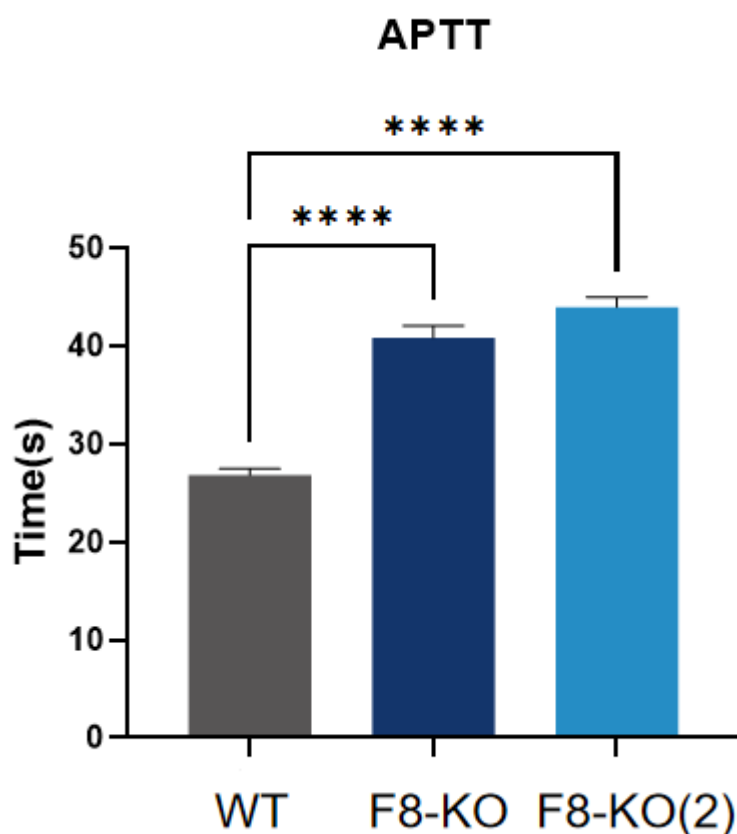


Fig2. Analysis of activated partial thromboplastin time (APTT) in the F8 knock-out mice. The coagulation time in F8-KO mice (NM-KO-00012) was significantly longer than wild-type, and there was no obvious difference in coagulation time between F8-KO (NM-KO-00012) and F8-KO(2) (NM-KO-200608).

F8 gene knockout mice are an ideal animal model for studying the pathogenesis and drug screening of hemophilia A at the whole animal level. In addition, F8 gene knockout mice can provide an ideal animal model and a novel research tool for the screening and evaluation of hemophilia A drugs as well as the gene therapy of hemophilia A. F8 gene knockout mice provide an effective tool for further elucidating the pathogenesis of hemophilia A, for the evaluation and screening of drugs used for the prevention and treatment of hemophilia A, and for the development of new therapies.
