

Vegfa-KO

Nomenclature	C57BL/6Smoc- <i>Vegfa</i> ^{em15moc}
Cat. NO.	NM-KO-190539
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Vegfa	Synonyms	Vpf, Vegf
	NCBI ID	22339
	MGI ID	103178
	Ensembl ID	ENSMUSG00000023951
	Human Ortholog	VEGFA

Model Description

Exon 1-6 of Vegfa gene was deleted to generate Vegfa knockout mice.

Research Application: Growth Factors, Diabetes.

*Literature published using this strain should indicate: Vegfa-KO mice (Cat. NO. NM-KO-190539) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Amyotrophic Lateral Sclerosis Type 1	Phenotype(s)	MGI:3796444
	Reference(s)	Oosthuysen B, Moons L, Storkebaum E, Beck H, Nuyens D, Brusselmans K, Van Dorpe J, Hellings P, Gorselink M, Heymans S, Theilmeyer G, Dewerchin M, Laudenbach V, Vermeylen P, Raat H, Acker T, Vlemingckx V, Van Den Bosch L, Cashman N, Fujisawa H, Drost MR, Sciot R, Bruyninckx F, Hicklin DJ, Ince C, Gressens P, Lupu F, Plate KH, Robberecht W, Herbert JM, Collen D, Carmeliet P, Deletion of the hypoxia-response element in the vascular endothelial growth factor promoter causes motor neuron degeneration. Nat Genet. 2001 Jun;28(2):131-8

Newborn Respiratory Distress Syndrome	Phenotype(s)	MGI:3047228
	Reference(s)	Compernolle V, Brusselmans K, Acker T, Hoet P, Tjwa M, Beck H, Plaisance S, Dor Y, Keshet E, Lupu F, Nemery B, Dewerchin M, Van Veldhoven P, Plate K, Moons L, Collen D, Carmeliet P, Loss of HIF-2alpha and inhibition of VEGF impair fetal lung maturation, whereas treatment with VEGF prevents fatal respiratory distress in premature mice. Nat Med. 2002 Jul;8(7):702-10

Validation Data

No data