

Product datasheet for MR227096

Vegfa (NM_009505) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Vegfa (NM_009505) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vegfa
Synonyms:	V; Veg; Vegf; VEGF12; VEGF16; VEGF18; Vpf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227096 representing NM_009505 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

CTGACGGACAGACAGACAGACACCGCCCCAGCCCCAGCGCCCACCTCCTCGCCGGCGGGCTGCCGACGG TGGACGCGGCGGCGAGCCGCGAGGAACCCGAAGCCCGCGCCCGGAGGCGGGGTGGAGGGGGTCGGGGCTCG CGGGATTGCACGGAAACTTTTCGTCCAACTTCTGGGCTCTTCTCGCTCCGTAGTAGCCGTGGTCTGCGCC GCAGGAGACAAACCGATCGGAGCTGGGAGAAGTGCTAGCTCGGGCCTGGAGAAGCCGGGGCCCGAGAAGA GAGGGGAGGAAGAAGAGAAGAGGAGAGGGGGGCCGCAGTGGGCGCTCGGCTCTCAGGAGCCGAGCTCATG TCGGTTCCAGAAGGGAGGAGCCCGCCAAGGCGCGCAAGAGAGCGGGCTGCCTCGCAGTCCGAGCCGGA GAGGGAGCGCGAGCCGCGCCCGGACGGGCCTCCGAAACCATGAACTTTCTGCTCTCTGGGTGCA CTGGACCCTGGCTTTACTGCTGTACCTCCACCATGCCAAGTGGTCCCAGGCTGCACCCACGACAGAAGGA GAGCAGAAGTCCCATGAAGTGATCAAGTTCATGGATGTCTACCAGCGAAGCTACTGCCGTCCGATTGAGA CCCTGGTGGACATCTTCCAGGAGTACCCCGACGAGATAGAGTACATCTTCAAGCCGTCCTGTGTGCCGCT ATGCAGATCATGCGGATCAAACCTCACCAAAGCCAGCACATAGGAGAGATGAGCTTCCTACAGCACAGCA GATGTGAATGCAGACCAAAGAAAGACAGAACAAAGCCAGAAAATCACTGTGAGCCTTGTTCAGAGCGGAG AAAGCATTTGTTTGTCCAAGATCCGCAGACGTGTAAATGTTCCTGCAAAAACACAGACTCGCGTTGCAAG GCGAGGCAGCTTGAGTTAAACGAACGTACTTGCAGATGTGACAAGCCAAGGCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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GRIGENE Vegfa (NM_009505) Mouse Tagged ORF Clone – MR227096

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 009505.4, NP 033531.3</u>
RefSeq Size:	3475 bp
RefSeq ORF:	1107 bp
Locus ID:	22339
UniProt ID:	<u>Q00731</u>
Cytogenetics:	17 22.79 cM
MW:	40.3 kDa
Gene Summary:	This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. This gene is upregulated in many known tumors and its expression is correlated with tumor stage and progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. There is also evidence for alternative translation initiation from upstream non-AUG (CUG) codons resulting in additional isoforms. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is antiangiogenic. Expression of some

isoforms derived from the AUG start codon is regulated by a small upstream open reading frame, which is located within an internal ribosome entry site.[provided by RefSeq, Nov 2015]

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Product images:



Circular map for MR227096

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