

Product datasheet for **MC209636**

Vegfa (NM_009505) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vegfa (NM_009505) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC209636 representing NM_009505 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

CTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCCTGACGGACAGACAGACAGACACCGCCCCCA
GCCCCAGCGCCACCTCCTCGCCGGCGGGCTGCCGACGGTGGACGCGCGCGGAGCCGCGAGGAACCGAA
GCCCGCGCCCGGAGGCGGGGTGGAGGGGTGGGGCTCGCGGATTGCACGGAACTTTTCGTCCAACCT
CTGGGCTCTTCTCGCTCCGTAGTAGCCGTGGTCTGCGCCGAGGAGACAAACCGATCGGAGCTGGGAGAA
GTGCTAGCTCGGGCTGGAGAAGCCGGGCCCGAGAAGAGAGGGGAGGAAGAGAAGAGGAGAGGGG
GCCGAGTGGGCGCTCGGCTCTCAGGAGCCGAGCTCATGGACGGGTGAGGCGGCCGTGTGCGCAGACAGT
GCTCCAGCCGCGCGCGCCCGCCAGGCCCGCCGGGCCCTCGGTTCCAGAAGGGAGAGGAGCCCGCCAAG
GCGCGCAAGAGAGCGGGCTGCCTCGCAGTCCGAGCCGGAGAGGGAGCGCGAGCCGCGCCGCCCCGGACG
GGCCTCCGAAACCATGAACCTTTCTGCTCTTTGGGTGCACTGGACCCTGGCTTTACTGCTGTACCTCCAC
CATGCCAAGTGGTCCCAGGCTGCACCCACGACAGAAGGAGAGCAGAAGTCCCATGAAGTGATCAAGTTCA
TGGATGTCTACCAGCGAAGCTACTGCCGTCCGATTGAGACCCTGGTGGACATCTTCCAGGAGTACCCCGA
CGAGATAGAGTACATCTCAAGCCGTCTGTGTGCCGTGATGCGCTGTGCAGGCTGTGTAACGATGAA
GCCCTGGAGTGGTGGCCACGTCAGAGAGCAACATCACCATGCAGATCATGCGGATCAAACCTCACCAAA
GCCAGCACATAGGAGAGATGAGCTTCTACAGCACAGCAGATGTGAATGCAGACCAAGAAAGACAGAAAC
AAAGCCAGAAAATCACTGTGAGCCTTGTTCAGAGCGGAGAAAGCATTTGTTTGTCCAAGATCCGCGAGCG
TGTAAATGTTCTGCAAAAACACAGACTCGCGTTGCAAGGCGAGGAGCTTGAGTTAAACGAACGTA
GCAGATGTGACAAGCCAAGGCGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_009505
Insert Size:	1107 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. 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.
RefSeq:	NM_009505.4 , NP_033531.3
RefSeq Size:	3475 bp
RefSeq ORF:	1107 bp
Locus ID:	22339
UniProt ID:	Q00731
Cytogenetics:	17 22.79 cM

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]

Transcript Variant: This variant (2) lacks an in-frame, internal coding exon, compared to variant 1. This variant can initiate translation from a non-AUG (CUG) site and also from a downstream, in-frame AUG site. The isoform (2) represented in this RefSeq is translated from the CUG start codon and it lacks an internal segment, compared to isoform 1. Sequence Note: A non-AUG (CUG) translation initiation codon is selected for this RefSeq based on conservation with the human ortholog, for which the use of the CUG start codon has been demonstrated in the literature, including PMIDs:11352659, 11563986 and 11731620.