

Product datasheet for MC209637

Vegfa (NM_001025250) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Vegfa (NM_001025250) 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: >NM_001025250.3

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

CTGACGGACAGACAGACAGCCCCCCAGCCCCAGCGCCCACCTCCTCGCCGGCGGGGTGCCGACGG TGGACGCGGCGAGCCGCGAGGAACCGAAGCCCGCGCCCGGAGGCGGGTGGAGGGGGTCGGGGCTCG CGGGATTGCACGGAAACTTTTCGTCCAACTTCTGGGCTCTTCTCGCTCCGTAGTAGCCGTGGTCTGCGCC GCAGGAGACAAACCGATCGGAGCTGGGAGAAGTGCTAGCTCGGGCCTGGAGAAGCCGGGGCCCGAGAAGA GAGGGGAGGAAGAGAAGAGAGAGAGGGGGCCCCAGTGGCCCTCCGCCTCTCAGGAGCCGAGCTCATG TCGGTTCCAGAAGGGAGGAGCCCGCCAAGGCGCGCAAGAGAGCGGGCTGCCTCGCAGTCCGAGCCGGA GAGGGAGCGCGAGCCGCCCGGCCCGGACGGCCCTCCGAAACCATGAACTTTCTGCTCTCTTTGGGTGCA CTGGACCCTGGCTTTACTGCTGTACCTCCACCATGCCAAGTGGTCCCAGGCTGCACCCACGACAGAAGGA GAGCAGAAGTCCCATGAAGTGATCAAGTTCATGGATGTCTACCAGCGAAGCTACTGCCGTCCGATTGAGA CCCTGGTGGACATCTTCCAGGAGTACCCCGACGAGATAGAGTACATCTTCAAGCCGTCCTGTGTGCCGCT ATGCAGATCATGCGGATCAAACCTCACCAAAGCCAGCACATAGGAGAGATGAGCTTCCTACAGCACAGCA TCAAAAACGAAAGCGCAAGAAATCCCGGTTTAAATCCTGGAGCGTTCACTGTGAGCCTTGTTCAGAGCGG AGAAAGCATTTGTTTGTCCAAGATCCGCAGACGTGTAAATGTTCCTGCAAAAACACAGACTCGCGTTGCA AGGCGAGGCAGCTTGAGTTAAACGAACGTACTTGCAGATGTGACAAGCCAAGGCGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Chromatograms: https://cdn.origene.com/chromatograms/ja1468-e04.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_001025250

Insert Size: 1179 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customer.com or by

calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

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: 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 001025250.3, NP 001020421.2

 RefSeq Size:
 3547 bp

 RefSeq ORF:
 1179 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 (1) represents the longest transcript. This variant can initiate translation from a non-AUG (CUG) site and also from a downstream, in-frame AUG site. The isoform (1) represented in this RefSeq is translated from the CUG start codon and is the longest isoform. 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.