

## Product datasheet for **SC216842**

### VEGFA (NM\_001033756) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	VEGFA (NM_001033756) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	VEGFA
Synonyms:	MVCD1; VEGF; VPF
ACCN:	NM_001033756
Insert Size:	1889 bp



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**Insert Sequence:** >SC216842 3'UTR clone of NM\_001033756  
 The sequence shown below is from the reference sequence of NM\_001033756. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ACTTGCAGATCTCTACCAGGAAAGACTGATACAGAACGATCGATACAGAAACCACGCTGCCGCCACCA
CACCATCACCATCGACAGAACAGTCCTTAATCCAGAAACCTGAAATGAAGGAAGAGGAGACTCTGCGCA
GAGCACTTTGGGTCCGGAGGGCGAGACTCCGGCGGAAGCATTCCCGGGCGGGTGACCCAGCACGGTCCC
TCTTGAATTGGATTGCCATTTATTTTTCTTGTGCTAAATCACCGAGCCCGGAAGATTAGAGAGTT
TTATTTCTGGGATTCTGTAGACACACCCACCCACATACATATATATATATATATATATATATATA
TATAAAAATAAATATCTCTATTTTATATATATAAAAATATATATATCTTTTTTAAATTAACAGTGCTA
ATGTTATTGGTGTCTTCACTGGATGATTTGACTGCTGTGGACTTGAGTTGGGAGGGGAATGTTCCAC
TCAGATCTGACAGGGAAGAGGAGAGATGAGAGACTCTGGCATGATCTTTTTTTGTCCCACTTGGTG
GGCCAGGGTCCCTCCCTGCCAGGAATGTGCAAGGCCAGGGCATGGGGGCAAATATGACCCAGTTT
TGGGAACACCGACAAACCCAGCCCTGGCGCTGAGCCTCTACCCAGGTGACAGGACAGAAAGACAG
ATCACAGGTACAGGGATGAGGACACCGGCTCTGACCAGGAGTTGGGGAGCTTCAGGACATTGCTGTGC
TTTGGGATTCCCTCCACATGCTGCACGCGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTGAGGAG
CCTGGGCGGCCTTCGCTTACTCTCACCTGCTTCTGAGTTGCCAGGAGACCAGTGGCAGATGTCGGGC
GAAGAGAAGAGACACATTGTTGGAAGAAGCAGCCCATGACAGCTCCCTTCTGGGACTCGCCCTCATC
CTCTTCTGCTCCCTTCTGGGTGCAGCCTAAAAGGACCTATGCTCACACCATTGAAACCAGTAG
TTCTGTCCCCCAGGAGACCTGGTGTGTGTGTGAGTGGTTGACCTTCTCCATCCCTGGTCCCTC
CCTTCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGCCCATTTGGGAGCAGAGAAAAGAG
AAAGTGTTTTATACGGTACTTATTTAATATCCCTTTTTAATTAGAAATTAACAAGTTAATTTAATT
AAAGAGTAGGGTTTTTTTTAGTATTCTTGGTAAATTTAATTTCAACTATTTATGAGATGATCTTT
TGCTCTCTCTGCTCTTATTTGTACCGTTTTTGTATATAAAATTCATGTTTCCAATCTCTCTCC
CTGATCGGTGACAGTCACTAGCTTATCTTGAACAGATATTTAATTTTGTAACTCAGCTCTGCCCTC
CCCGATCCCTGGCTCCCGACACACATTCCTTGAATAAGGTTTCAATATACATCTACATACTATAT
ATATATTTGGCAACTTGATTTGTGTATATATATATATATATGTTTATGTATATATGTGATTCTGAT
AAAATAGACATTGCTATTCTGTTTTTATATGTAACAAACAAAGAAAAATAGAGAATTCTACATA
CTAAATCTCTCTCTTTTTAATTTAATTTTGTATATTTATTTATTGGTGTACTGTTTATCCGT
AATAATTGTGGGAAAAGATATTAACATCACGTCTTTGTCTCTAGTGCAGTTTTTCGAGATATCCGTA
GTACATATTTATTTTAAACAACGACAAAGAAATACAGATATATCTTAAAAAAAAAAAAAGCATTTTGTG
TTAAAGAATTTAATTCTGATCTCAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001033756.3](#)

**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. Elevated levels of this protein are found in patients with POEMS syndrome, also known as Crow-Fukase syndrome. Allelic variants of this gene have been associated with microvascular complications of diabetes 1 (MVCD1) and atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been described. 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. The levels of VEGF are increased during infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), thus promoting inflammation by facilitating recruitment of inflammatory cells, and by increasing the level of angiotensin II (Ang II), one of two products of the SARS-CoV-2 binding target, angiotensin-converting enzyme 2 (ACE2). In turn, Ang II facilitates the elevation of VEGF, thus forming a vicious cycle in the release of inflammatory cytokines. [provided by RefSeq, Jun 2020]

**Locus ID:**

7422

**MW:**

73