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# Product datasheet for SC217123

## VEGFA (NM_001025368) Human 3' UTR Clone

### Product data:

| | |
|---|---|
| **Product Type:** | 3' UTR Clones |
| **Product Name:** | VEGFA (NM_001025368) Human 3' UTR Clone |
| **Vector:** | pMirTarget (PS100062) |
| **Symbol:** | VEGFA |
| **Synonyms:** | MVCD1; VEGF; VPF |
| **ACCN:** | NM_001025368 |
| **Insert Size:** | 1955 bp |

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**Insert Sequence:**

>SC217123 3'UTR clone of NM_001025368
The sequence shown below is from the reference sequence of NM_001025368. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ACTTGCAGATGTGACAAGCCGAGGCGGTGAGCCGGGCAGGAGGAAGGAGCCTCCCTCAGGGTTTCGGGA
ACCAGATCTCTCACCAGGAAAGACTGATACAGAACGATCGATACAGAAACCACGCTGCCGCCACCACAC
CATCACCATCGACAGAACAGTCCTTAATCCAGAAACCTGAAATGAAGGAAGAGGAGACTCTGCGCAGAG
CACTTTGGGTCCGGAGGGCGAGACTCCGGCGGAAGCATTCCCGGGCGGGTGACCCAGCACGGTCCCTCT
TGGAATTGGATTCGCCATTTTATTTTTCTTGCTGCTAAATCACCGAGCCCGGAAGATTAGAGAGTTTTA
TTTCTGGGATTCCTGTAGACACACCCACCCACATACATACATTTATATATATATATATTATATATATAT
AAAAATAAATATCTCTATTTTATATATATAAAATATATATATTCTTTTTTTAAATTAACAGTGCTAATG
TTATTGGTGTCTTCACTGGATGTATTTGACTGCTGTGGACTTGAGTTGGGAGGGGAATGTTCCCACTCA
GATCCTGACAGGGAAGAGGAGGAGATGAGAGACTCTGGCATGATCTTTTTTTTGTCCCACTTGGTGGGG
CCAGGGTCCTCTCCCCTGCCCAGGAATGTGCAAGGCCAGGGCATGGGGGCAAATATGACCCAGTTTTGG
GAACACCGACAAACCCAGCCCTGGCGCTGAGCCTCTCTACCCCAGGTCAGACGGACAGAAAGACAGATC
ACAGGTACAGGGATGAGGACACCGGCTCTGACCAGGAGTTTGGGGAGCTTCAGGACATTGCTGTGCTTT
GGGGATTCCCTCCACATGCTGCACGCGCATCTCGCCCCCAGGGGCACTGCCTGGAAGATTCAGGAGCCT
GGGCGGCCTTCGCTTACTCTCACCTGCTTCTGAGTTGCCCAGGAGACCACTGGCAGATGTCCCGGCGAA
GAGAAGAGACACATTGTTGGAAGAAGCAGCCCATGACAGCTCCCCTTCCTGGGACTCGCCCTCATCCTC
TTCCTGCTCCCCTTCCTGGGGTGCAGCCTAAAAGGACCTATGTCCTCACACCATTGAAACCACTAGTTC
TGTCCCCCCAGGAGACCTGGTTGTGTGTGTGTGAGTGGTTGACCTTCCTCCATCCCCTGGTCCTTCCCT
TCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGCCCATTGTGGAGGCAGAGAAAAGAGAAA
GTGTTTTATATACGGTACTTATTTAATATCCCTTTTTAATTAGAAATTAAAACAGTTAATTTAATTAAA
GAGTAGGGTTTTTTTTCAGTATTCTTGGTTAATATTTAATTTCAACTATTTATGAGATGTATCTTTTGC
TCTCTCTTGCTCTCTTATTTGTACCGGTTTTTGTATATAAAATTCATGTTTCCAATCTCTCTCTCCCTG
ATCGGTGACAGTCACTAGCTTATCTTGAACAGATATTTAATTTTGCTAACACTCAGCTCTGCCCTCCCC
GATCCCCTGGCTCCCCAGCACACATTCCTTTGAAATAAGGTTTCAATATACATCTACATACTATATATA
TATTTGGCAACTTGTATTTGTGTGTATATATATATATATATGTTTATGTATATATGTGATTCTGATAAA
ATAGACATTGCTATTCTGTTTTTTATATGTAAAAACAAAACAAGAAAAAATAGAGAATTCTACATACTA
AATCTCTCTCCTTTTTTAATTTTAATATTTGTTATCATTTATTTATTGGTGCTACTGTTTATCCGTAAT
AATTGTGGGGAAAAGATATTAACATCACGTCTTTGTCTCTAGTGCAGTTTTTCGAGATATTCCGTAGTA
CATATTTATTTTTAAACAACGACAAAGAAATACAGATATATCTTAAAAAAAAAAAAGCATTTTGTATTA
AAGAATTTAATTCTGATCTCAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

**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_001025368.3

**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 angiopoietin 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:** 75.4