

## Product datasheet for **SC217124**

### VEGFA (NM\_001025366) Human 3' UTR Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | 3' UTR Clones                           |
| Product Name:             | VEGFA (NM_001025366) Human 3' UTR Clone |
| Symbol:                   | VEGFA                                   |
| Synonyms:                 | MVCD1; VEGF; VPF                        |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pMirTarget (PS100062)                   |
| ACCN:                     | NM_001025366                            |
| Insert Size:              | 1942 bp                                 |



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**Insert Sequence:**

>SC217124 3' UTR clone of NM\_001025366

The sequence shown below is from the reference sequence of NM\_001025366. The complete sequence of this clone may contain minor differences, such as SNPs. Red=Cloning site  
Blue=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

TGCAGATGTGACAAGCCGAGGCCGT**TG**AGCCGGGCAGGAGGAAGGAGCCTCCCTCAGGGTTTCGGGAACCA  
GATCTCTCACCAGGAAAGACTGATACAGAACGATCGATACAGAAACCACGCTGCCGCCACCACACCATCA  
CCATCGACAGAACAGTCTCTTAATCCAGAAACCTGAAATGAAGGAAGAGGAGACTCTGCGCAGAGCACTTT  
GGGTCCGGAGGGCGAGACTCCGGCGGAAGCATTCCCGGGCGGGTGACCCAGCACGGTCCCTCTTGGAATT  
GGATTCCGCATTTTATTTTCTTGCTGCTAAATCACCGAGCCCGGAAGATTAGAGAGTTTTATTTCTGGG  
ATTCTGTAGACACACCCACCCACATACATACATTTATATATATATATATTATATATATAAAAAATAAA  
TATCTCTATTTTATATATATAAAATATATATATCTTTTTTTAAATTAACAGTGCTAATGTTATTGGTGT  
CTTCACTGGATGTATTTGACTGCTGTGGACTTGAGTTGGGAGGGGAATGTTCCCACTCAGATCCTGACAG  
GGAAGAGGAGGAGATGAGAGACTCTGGCATGATCTTTTTTTGTCCCACTTGGTGGGGCCAGGGTCCCTCT  
CCCCCTGCCAGGAATGTGCAAGGCCAGGGCATGGGGGCAAAATAGACCCAGATTTTGGGAACACCCGACAA  
CCCAGCCCTGGCGCTGAGCCTCTCTACCCAGGTGACAGCGACAGAAAGACAGATCAGAGTACAGGATA  
GAGGACACCCGGCTCTGACCCAGGAGTTTGGGGAGCTTCAGGACATTGCTGTGCTTTGGGGATTCCCTCCAC  
ATGCTGCACGCGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTGAGAGCCTGGGCGGCCTTCGCTTA  
CTCTCACCTGCTTCTGAGTTGCCCAGGAGACCACTGGCAGATGTCCCGCGAAGAGAAGAGACACATTGT  
TGGAAGAAGCAGCCCATGACAGCTCCCTTCTGGGACTCGCCCTCATCTCTTCTGCTCCCTTCTCTG  
GGGTGCAGCCTAAAAGGACCTATGTCCTACACCATTGAAACCACTAGTTCTGTCCCCCAGGAGACCTG  
GTTGTGTGTGTGTGAGTGGTTGACCTTCTCCATCCCCTGGTCTTCCCTTCCCTTCCCGAGGCACAGAG  
AGACAGGGCAGGATCCACGTGCCATTGTGGAGGCAGAGAAAAGAGAAAGTGTTTTATATACGGTACTTA  
TTTAATATCCCTTTTTAAATTAGAAATTAACACAGTTAATTTAATTAAAGAGTAGGGTTTTTTTTTCAGTAT  
TCTTGTTAATATTTAATTTCACTATTTATGAGATGTATCTTTTGCTCTCTCTTGCTCTCTTATTGTGA  
CCGGTTTTTGATATAAAATTCATGTTTCCAATCTCTCTCCCTGATCGGTGACAGTCACTAGCTTATC  
TTGAACAGATATTTAATTTTGCTAACACTCAGCTCTGCCCTCCCGATCCCTGGCTCCCCAGCACACAT  
TCCTTTGAAATAAGGTTTCAATATACATCTACATACTATATATATTTGGCAACTTGTATTTGTGTGTA  
TATATATATATATATGTTTATGTATATGTGATTCTGATAAAATAGACATTTGCTATTCTGTTTTTATA  
TGTAACAAACAAAACAAAAAATAGAGAATTCACATACTAAATCTCTCTCTTTTTTAAATTTAATAT  
TTGTTATCATTTATTTATTTGGTGCTACTGTTTATCCGTAATAATTGTGGGGAAGATATTAACATCAGC  
TCTTTGCTCTAGTGCAGTTTTTCGAGATATTCGTAAGTACATATTTATTTTAAACAACGACAAAGAAA  
TACAGATATATCTTAAAAAAGGATTTTGTATTAAGAATTTAATTC

ACGCGTAAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCG

### Restriction Sites:

Sgfl-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.

**Note:**

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM\_001025366.2

**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