

## Product datasheet for **SC128250**

### VEGFB (NM\_003377) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VEGFB (NM\_003377) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** VEGFB  
**Synonyms:** VEGFL; VRF  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003377 edited  
GCGATGCGGGCGCCCCGGCGGGCCCGCGGGCACCATGAGCCCTCTGCTCCGCCG  
CCTGCTGCTCGCCGCACTCTGCAGCTGGCCCCCGCCAGGCCCTGTCTCCAGCCTGA  
TGCCCCCTGGCCACCAGAGGAAAGTGGTGTATGGATAGATGTGTATACTCGCGCTACCTG  
CCAGCCCCGGGAGGTGGTGGTGCCTTGACTGTGGAGCTCATGGGCACCGTGGCCAAACA  
GCTGGTGCCAGCTGCGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCT  
GGAGTGTGTGCCACTGGGCAGCACCAAGTCCGGATGCAGATCCTCATGATCCGGTACCC  
GAGCAGTCAGCTGGGGGAGATGTCCCTGGAAGAACACAGCCAGTGTGAATGCAGACCTAA  
AAAAAAGGACAGTGTGTGAAGCCAGACAGGGCTGCCACTCCCCACCACCGTCCCCAGCC  
CCGTTCTGTTCCGGGCTGGGACTCTGCCCCGGAGCACCTCCCCAGCTGACATCACCCA  
TCCCACCTCCAGCCCCAGGCCCTCTGCCACGCTGCACCCAGCACACCAGCGCCCTGAC  
CCCCGGACCTGCCGCTGCCGCTGCCGACCCGAGCTTCCCTCCGTTGCCAAGGGCGGGC  
TTAGAGCTCAACCCAGACACCTGCAGGTGCCGGAAGCTGCGAAGGTGACACATGGCTTTT  
CAGACTCAGCAGGGTGACTTGCCTCAGAGGCTATATCCCAGTGGGGGAACAAAGAGGAGC  
CTGGTAAAAAACAGCCAAGCCCCAAGACCTCAGCCCAGGCAGAAAGTGTCTAGGACCT  
GGGCTCTCAGAGGGCTCTTCTGCCATCCCTTGTCTCCCTGAGGCCATCATCAAACAGGA  
CAGAGTTGGAAGAGGAGACTGGGAGGCAGCAAGAGGGGTACATACCAGCTCAGGGGAGA  
ATGGAGTACTGTCTCAGTTTCTAACCCTCTGTGCAAGTAAGCATTTACAACCTGGCTCT  
TCCTCCCCTCACTAAGAAGACCCAAACCTCTGCATAATGGGATTTGGGCTTTGGTACAAG  
AACTGTGACCCCCAACCTGATAAAAAGATGGAAGGAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003377 unedited AAAAAACGTCAGATTTGTAACGACTTATATAGGCGGCCGCGNAATTCGCACGAGGGCGA TGGCGGGCGCCCCGGCGGGCGGCCCGGGCACCATGAGCCCTCTGCTCCGCCGCTG CTGCTCGCCGCACTCCTGCAGCTGGCCCCCGCCAGGCCCTGTCTCCAGCCTGATGCC CCTGGCCACCAGAGGAAAGTGGTGTATGGATAGATGTGTATACTCGCGTACCTGCCAG CCCCAGGAGTGGTGGTGCCTTGACTGTGGAGCTCATGGCACCGTGGCCAAACAGCTG GTGCCAGCTGCGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCTGGAG TGTGTGCCCACTGGGCAGCACCAAGTCCGGATGCAGATCCTCATGATCCGGTACCCGAGC AGTCAGCTGGGGGAGATGTCCTTGGAAAGAACACAGCCAGTGTGAATGCAGACCTAAAAAA AAGGACAGTGTGTGAAGCCAGACAGGGCTGCCACTCCCCACCACCGTCCCCAGCCCCGT TCTGTTCCGGGCTGGGACTCTGCCCCGGAGCACCTCCCCAGCTGACATCACCCATCCC ACTCCAGCCCCAGGCCCTCTGCCACGCTGCACCCAGCACACCAGCGCCCTGACCCCC GGACTGCCGCTGCCGCTGCCGACGCCCACTTTCTCCGTTGCCAAAGGCGGGGCTTAT AGCTCAACCCAGACCCTGCAAGTGCAGGAACTGCGAAAGGACACATGCTTTTCAGACTC CACAGGTGACTTGCCCTCANAGCCATTTCCACGGGGAAACAAGAGGAGCCTGGGAAAAA AAACCCAGCCCCAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_003377
<b>Insert Size:</b>	1200 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_003377.3</a> , <a href="#">NP_003368.1</a>
<b>RefSeq Size:</b>	1172 bp
<b>RefSeq ORF:</b>	624 bp
<b>Locus ID:</b>	7423
<b>UniProt ID:</b>	<a href="#">P49765</a>
<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	PDGF
<b>Protein Families:</b>	Druggable Genome, Secreted Protein

<b>Protein Pathways:</b>	Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma
<b>Gene Summary:</b>	<p>This gene encodes a member of the PDGF (platelet-derived growth factor)/VEGF (vascular endothelial growth factor) family. The VEGF family members regulate the formation of blood vessels and are involved in endothelial cell physiology. This member is a ligand for VEGFR-1 (vascular endothelial growth factor receptor 1) and NRP-1 (neuropilin-1). Studies in mice showed that this gene was co-expressed with nuclear-encoded mitochondrial genes and the encoded protein specifically controlled endothelial uptake of fatty acids. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Sep 2011]</p> <p>Transcript Variant: This variant (VEGFB-186) encodes the longer isoform (VEGFB-186, also known as VRF186). This isoform lacks the heparin binding domain and is secreted freely from cells. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>