

Product datasheet for **SC332025**

VEGFB (NM_001243733) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: VEGFB (NM_001243733) Human Untagged Clone
Tag: Tag Free
Symbol: VEGFB
Synonyms: VEGFL; VRF
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332025 representing NM_001243733.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAGCCCTCTGCTCCGCCGCTGCTGCTCGCCGCACTCCTGCAGCTGGCCCCGCCAGGCCCTGTCTCCAGCCTGATGCCCTGGCCACCAGAGGAAAGTGGTGTATGATAGATGTGTATACTCGCGTACC  
TGCCAGCCCCGGGAGGTGGTGGTGGCCCTTGACTGTGGAGCTCATGGCACCCTGGCCAAACAGTGGTG  
CCCAGCTGCGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCTGGAGTGTGTGCCACT  
GGCAGCACCAAGTCCGGATGCAGATCCTCATGATCCGGTACCCGAGCAGTCAGTGGGGGAGATGTCC  
CTGGAAGAACACAGCCAGTGTGAATGCAGACCTAAAAAAGGACAGTGTGTGAAGCCAGACAGCCCC  
AGGCCCTCTGCCACGCTGCACCCAGCACCACCGCCCTGACCCCGGACCTGCCGCTGCCGCTGC  
CGACGCCGAGCTTCTCCGTTGCCAAGGGCGGGCTTAGAGCTCAACCCAGACACCTGCAGGTGCCGG  
AAGCTGCGAAGGTGA
```

Restriction Sites: Sgfl-Mlul
ACCN: NM_001243733
Insert Size: 567 bp
OTI Disclaimer: 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).
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).



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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_001243733.1](#)

RefSeq Size: 1721 bp

RefSeq ORF: 567 bp

Locus ID: 7423

UniProt ID: [P49765](#)

Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Bladder cancer, Cytokine-cytokine receptor interaction, Focal adhesion, mTOR signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma

MW: 21.3 kDa

Gene Summary: 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]

Transcript Variant: This variant (VEGFB-167) lacks a segment in the 3' coding region, resulting in a downstream stop codon, compared to variant VEGFB-186. The resulting isoform (VEGFB-167, also known as VRF167) has a shorter and distinct C-terminus, compared to isoform VEGFB-186. This isoform contains the heparin binding domain and is mostly sequestered in the extracellular matrix. 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.