

Product datasheet for **RG233392**

VEGFB (NM_001243733) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VEGFB (NM_001243733) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VEGFB
Synonyms: VEGFL; VRF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233392 representing NM_001243733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCCTCTGCTCCGCCGCTGCTGCTCGCCGACTCCTGCAGCTGGCCCCGCCAGGCCCTGTCT
 CCCAGCCTGATGCCCTGGCCACCAGAGGAAAGTGGTGCATGGATAGATGTGTATACTCGCCTACCTG
 CCAGCCCCGGGAGGTGGTGGTGCCTTGACTGTGGAGCTCATGGGCACCGTGGCCAAACAGCTGGTCC
 AGCTGCGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCTGGAGTGTGTCCCACTGGC
 AGCACCAAGTCCGGATGCAGATCCTCATGATCCGGTACCCGAGCAGTCAGCTGGGGGAGATGTCCCTGGA
 AGAACACAGCCAGTGTGAATGCAGACCTAAAAAAGGACAGTGTGTGAAGCCAGACAGCCCCAGGCC
 CTCTGCCACGCTGCACCCAGCACCAGCGCCCTGACCCCGGACCTGCCGCTGCCGCTGCCGACGCC
 GCAGCTTCTCCGTTGCCAAGGGCGGGCTTAGAGCTCAACCCAGACACCTGCAGGTGCCGAAGCTGCG
 AAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233392 representing NM_001243733
 Red=Cloning site Green=Tags(s)

MSPLLRRLLLAALLQLAPAPVSPDPAGHQKVVSWIDVYTRATCQPREVVVPLTVELMGTVAKQLVP
 SCVTVQRCGGCCPDDGLECVPTGQHVRMQILMIRYPSSQLGEMSL EEHSQCECRPKKDSAVKPDSPRP
 LCPRCTQHHQRPDPRTCRCRRRSFLRCQGRGLELNPDCRCRKLRR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001243733

ORF Size: 564 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

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_001243733.2](#)

RefSeq Size: 1721 bp

RefSeq ORF: 567 bp

Locus ID: 7423

UniProt ID: [P49765](#)

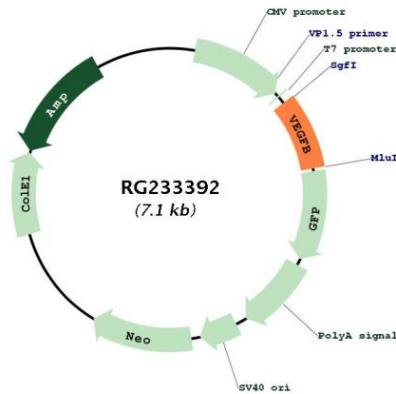
Cytogenetics: 11q13.1

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

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]

Product images:



Circular map for RG233392