

Product datasheet for **MG201768**

Vegfb (BC046303) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vegfb (BC046303) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Vegfb
Synonyms: VEGF-B; Vrf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201768 representing BC046303
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCCCCTGCTCCGTCGCCTGCTGCTTGTTCGACTGCTGCAGCTGGCTCGCACCCAGGCCCTGTGT
CCCAGTTTGATGGCCCCAGCCACCAGAAGAAAGTGGTCCATGGATAGACGTTTATGCACGTGCCACATG
CCAGCCCAGGGAGGTGGTGGTGCCTCTGAGCATGGAACCTATGGGCAATGTGGTCAAACACTAGTGCC
AGCTGTGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCTGGAATGTGTGCCACTGGC
AACACCAAGTCCGAATGCAGATCCTCATGATCCAGTACCCGAGCAGTCAGCTGGGGGAGATGTCCCTGGA
AGAACACAGCCAATGTGAATGCAGACCAAAAAAAAAAGGAGAGTGCTGTGAAGCCAGACAGCCCAGGATC
CTCTGCCCGCCTTGACCCAGCGCGTCAACGCCCTGACCCCGACCTGCCGCTGCCGCTGCAGACGCC
GCCGCTTCTCCATTGCCAAGGGCGGGCTTAGAGCTCAACCCAGACACCTGTAGGTGCCGAAGCCGCG
AAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201768 representing BC046303
Red=Cloning site Green=Tags(s)

MSPLLRRLLL VALLQLARTQAPVSQFDGSPHQKVVVPWIDVYARATCQPREVVVPLSMELMGNVVKQLVP
SCVTVQRCGGCCPDDGLECVPTGQHVRMQILMIQYPSQLGEMSL EEHSQCCECRPKKESAVKPDSPRI
LCPPCTQRRQRPDPRTCRCR RRRRFLHCQGRGLELNPDCRCKPRK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: BC046303

ORF Size: 566 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: [BC046303](#), [AAH46303](#)

RefSeq Size: 1171 bp

RefSeq ORF: 566 bp

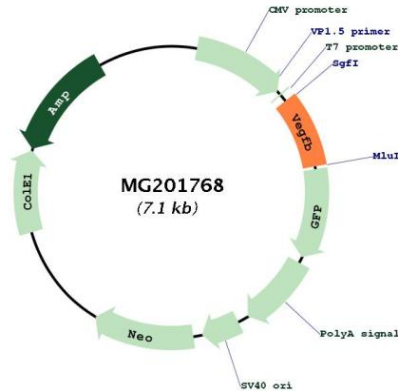
Locus ID: 22340

Cytogenetics: 19 A

Gene Summary:

Growth factor for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis. VEGF-B seems to be required for normal heart function in adult but is not required for proper development of the cardiovascular system either during development or for angiogenesis in adults.
 [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201768