

## Product datasheet for MR201768

### Vegfb (NM\_001185164) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vegfb (NM\_001185164) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Vegfb  
**Synonyms:** VEGF-B; Vrf  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR201768 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGCCCCCTGCTCCGTCGCCTGCTGCTTGTGCACTGCTGCAGCTGGCTCGCACCCAGGCCCTGTGT  
 CCCAGTTTGATGGCCCCAGCCACCAGAAGAAAGTGGTGCCATGGATAGACGTTTATGCACGTGCCACATG  
 CCAGCCCAGGGAGGTGGTGGTGCCTCTGAGCATGGAACCTATGGGCAATGTGGTCAAACAACCTAGTGCC  
 AGCTGTGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCTGGAATGTGTGCCACTGGGC  
 AACACCAAGTCCGAATGCAGATCCTCATGATCCAGTACCCGAGCAGTCAGCTGGGGGAGATGTCCCTGGA  
 AGAACACAGCCAATGTGAATGCAGACCAAAAAAAAAAGGAGAGTGTGTGAAGCCAGACAGCCCCAGGATC  
 CTCTGCCCGCCTTGACCCAGCGCCGTCAACGCCCTGACCCCGGACCTGCCGCTGCCGCTGCAGACGCC  
 GCCGCTTCTCCATTGCCAAGGGCGGGCTTAGAGCTCAACCCAGACACCTGTAGGTGCCGGAAGCCGCG  
 AAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201768 protein sequence  
 Red=Cloning site Green=Tags(s)

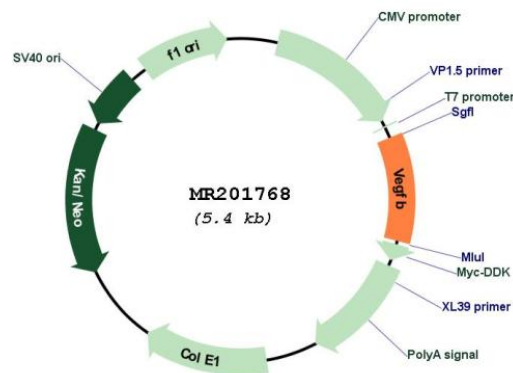
MSPLLRRLLL VALLQLARTQAPVSQFDGPPSHQKKVVPWIDVYARATCQPREVVVPLSMELMGNVVKQLVP  
 SCVTVQRCGGCCPDDGLECVPTGQHVRMQILMIQYPSQLGEMSL EEHSQCECRPKKESAVKPDSPRI  
 LCPPTQRRQRPDPRTRCRCRRRRFLHCQGRGLELNPDTCRCKPRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001185164

**ORF Size:** 567 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\\_001185164.1](#), [NP\\_001172093.1](#)

**RefSeq Size:** 1197 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 22340

**UniProt ID:** [P49766](#)

**Cytogenetics:** 19 A

**MW:** 21.4 kDa

**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]