

Product datasheet for **MC207023**

Vegfb (NM_001185164) Mouse Untagged Clone

Product data:

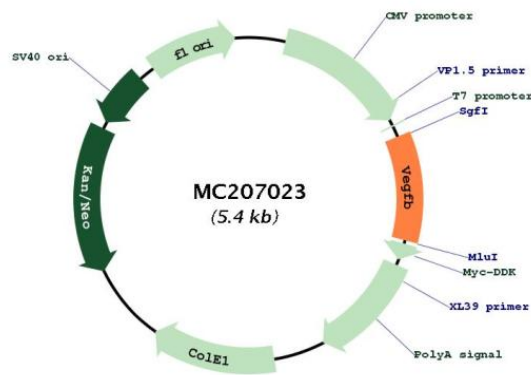
| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Vegfb (NM_001185164) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Vegfb |
| Synonyms: | VEGF-B; Vrf |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC207023 representing NM_001185164. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCCCCCTGCTCCGTCGCCTGCTGCTTGTGCACTGCTGCAGCTGGCTCGCACCCAGGCCCTGTG
TCCAGTTTGTGGCCCCAGCCACCAGAAGAAAGTGGTGCCATGGATAGACGTTTATGCACGTGCCACA
TGCCAGCCAGGGAGGTGGTGGTGCCTCTGAGCATGGAAGTCAATGGGCAATGTGGTCAAACAAGTAGT
CCCAGCTGTGACTGTGCAGCGCTGTGGTGGCTGCTGCCCTGACGATGGCCTGGAATGTGTGCCACT
GGGCAACACCAAGTCCGAATGCAGATCCTCATGATCCAGTACCCGAGCAGTCAGCTGGGGGAGATGTCC
CTGGAAGAACACAGCCAATGTGAATGCAGACCAAAAAAAAAAGGAGAGTGTGTGAAGCCAGACAGCCCC
AGGATCCTCTGCCCGCTTGCACCCAGCGCCGTC AACGCCCTGACCCCGGACCTGCCGCTGCCGCTGC
AGACGCCCGCTTCTCCATTGCCAAGGGCGGGCTTAGAGCTCAACCCAGACACCTGTAGGTGCCGG
AAGCCGCGAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001185164

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).

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](#)

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]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, compared to variant 1. This difference results in a frameshift and an isoform (Vegf-b167) with a shorter and distinct C-terminus, compared to isoform Vegf-b186.