

## Product datasheet for **RC228438**

### VEGF Receptor 1 (FLT1) (NM\_001160031) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_001160031) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VEGF Receptor 1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228438 representing NM\_001160031  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGTCAGCTACTGGACACCGGGTCTGCTGTGCGCGTCTGCTCAGCTGTCTGCTTCTCACAGGATCTA  
 GTCAGGTTCAAATAAAAGATCCTGAACTGAGTTAAAAGGCACCCAGCACATCATGCAAGCAGGCCA  
 GACTGTCATCTCCAATGCAAGGGGAAGCAGCCATAAATGGTCTTTCCTGAAATGGTGAAGGAA  
 AGCGAAAGGCTGAGCATAACTAAATCTGCTGTGGAAGAAATGGCAAACAATTCTGCAGTACTTTAACCT  
 TGAACACAGCTCAAGCAAACCACACTGGCTTCTACAGCTGCAAATATCTAGCTGTACCTACTTCAAAGAA  
 GAAGGAAACAGAATCTGCAATCTATATTTTATTAGTGATACAGGTAGACCTTTCGTAGAGATGTACAGT  
 GAAATCCCGAAATTATACACATGACTGAAGGAAGGGAGCTGTCATTCCCTGCCGGTTACGTCACCTA  
 ACATCACTGTTACTTTAAAAAAGTTCCACTTGACACTTTGATCCCTGATGGAAAACGCATAATCTGGGA  
 CAGTAGAAAGGGTTCATCATATCAAATGCAACGTACAAAGAAATAGGGCTTCTGACCTGTGAAGCAACA  
 GTCATGGGCATTTGTATAAGACAACTATCTCACACATCGACAAACCAATAACAATCATAGATGTCCAAA  
 TAAGCACACCACGCCAGTCAAATTAAGAGGCCATACTCTTGTCTCAATTGTACTGCTACCACTCC  
 CTTGAACACGAGAGTTCAAATGACCTGGAGTTACCCTGATGAAAAAATAAGAGAGCTTCCGTAAGGCGA  
 CGAATTGACCAAAGCAATCCCATGCCAACATATTCTACAGTGTCTTACTATTGACAAAATGCAGAACAA  
 AAGACAAAGGACTTTATACTTGTGCGTGAAGGAGTGGACCATCATTCAAATCTGTTAACACCTCAGTGCA  
 TATATATGATAAAGCATTCACTGTGAAACATCGAAAACAGCAGGTGCTTGAACCGTAGCTGGCAAG  
 CGGTCTTACCGGCTCTATGAAAGTGAAGGCATTTCCCTCGCCGGAAGTTGTATGGTTAAAAGATGGGT  
 TACCTGCGACTGAGAAATCTGCTCGTATTTGACTCGTGGCTACTGTTAATTATCAAGGACGTAAGTGA  
 AGAGGATGCAGGGAATTATACAATCTTGTGAGCATAAAACAGTCAAATGTGTTTAAAAACCTCACTGCC  
 ACTCTAATTGTCAATGTGAAACCCAGATTTACGAAAAGGCCGTGTCATCGTTTCCAGACCCGGCTCTCT  
 ACCCACTGGGCAGCAGACAAATCCTGACTTGTACCGCATATGGTATCCCTCAACCTACAATCAAGTGGTT  
 CTGGCACCCCTGTAACCAATAATCATTCCGAAGCAAGGTGTGACTTTTGTCCAATAATGAAGAGTCTTT  
 ATCCTGGATGCTGACAGCAACATGGAAACAGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAG  
 GAAAGAATAAGCTTCCACCAGCTAACAGTCTTTTCAATGTTGCCACCTACAAGCTTCTTCCAACACTACT  
 CCATTTCTTCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228438 representing NM\_001160031  
 Red=Cloning site Green=Tags(s)

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELCLKGTQHIMQAGQTLHLQCRGEAAHKWSPPEMVSKE  
 SERLSITKSACGRNGKQFCSTLTLNQAQANHTGFYSCKYLAVPTSKKETE SAIYIFISDTGRPFVEMYS  
 EIPEIIHMTGRELVIPCRVTSPNITVTLKKFPLDTLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEAT  
 VNGHLYKTNYLTHRQNTIIDVQISTPRPVKLLRGHTLVLNCTATPLNTRVQMTWSYPDEKNKRASVRR  
 RIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQVLETVAGK  
 RSYRLSMKVKAFPSPEVVWLKDGLPATEKSARYLTRGYSLLIKDVTEEDAGNYTILLSIKQSNVFNKLT  
 TLIVNVKPKQIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFHPCNHNHSEARCDFCNNNEESF  
 ILDADSNMGNRIESITQRMAIIEGKNKLPANSSFMLPPTSFSSNYFHFLP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8066\\_d04.zip](https://cdn.origene.com/chromatograms/mk8066_d04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001160031

**ORF Size:** 1623 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\\_001160031.1](#), [NP\\_001153503.1](#)

**RefSeq ORF:** 1626 bp

**Locus ID:** 2321

**UniProt ID:** [P17948](#)

**Cytogenetics:** 13q12.3

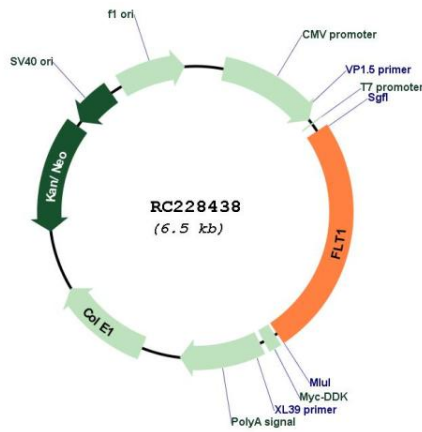
**Protein Families:** Druggable Genome, Protein Kinase, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion

**MW:** 60.92 kDa

**Gene Summary:** This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.[provided by RefSeq, May 2009]

**Product images:**



Circular map for RC228438