

Product datasheet for **SC327073**

VEGF Receptor 1 (FLT1) (NM_001160031) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | VEGF Receptor 1 (FLT1) (NM_001160031) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | FLT1 |
| 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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Fully Sequenced ORF: >SC327073 representing NM_001160031.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTCAGCTACTGGGACACCGGGTCTGTGCGCGTGCTCAGCTGTCTGCTTCTCACAGGATCT
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TCACCTAACATCACTGTTACTTTAAAAAGTTTCCACTTGACACTTTGATCCCTGATGAAAAACGCATA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001160031

Insert Size: 1626 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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](#)

RefSeq Size: 1911 bp

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: 60.9 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]

Transcript Variant: This variant (4) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded soluble protein (isoform 4) has a shorter, distinct C-terminus and lacks the transmembrane and cytoplasmic regions of isoform 1.