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Product datasheet for SC118893

VEGF Receptor 1 (FLT1) (NM_002019) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_002019) Human Untagged Clone
Tag:	Tag Free
Symbol:	VEGF Receptor 1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002019 edited
ATGGTCAGCTACTGGGACACCGGGGTCCTGCTGTGCGCGCTGCTCAGCTGTCTGCTTCTC
ACAGGATCTAGTTCAGGTTCAAAATTAAAAGATCCTGAACTGAGTTTAAAAGGCACCCAG
CACATCATGCAAGCAGGCCAGACACTGCATCTCCAATGCAGGGGGGAAGCAGCCCATAAA
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CGAATTGACCAAAGCAATTCCCATGCCAACATATTCTACAGTGTTCTTACTATTGACAAA
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ACCTTGGTTGTGGCTGACTCTAGAATTTCTGGAATCTACATTTGCATAGCTTCCAATAAA
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GAGTCGGGGCTGTCTGATGTCAGCAGGCCCAGTTTCTGCCATTCCAGCTGTGGGCACGTC
AGCGAAGGCAAGCGCAGGTTCACCTACGACCACGCTGAGCTGGAAAGGAAAATCGCGTGC
TGCTCCCCGCCCCCAGACTACAACTCGGTGGTCCTGTACTCCACCCCACCCATCTAG

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002019 unedited
AGCCTCGNACGCGCCAGGCGGACACTCCTCTCGGCTCCTCCCCGGCAGCGGCGGCGGCTC
GGAGCGGGCTCCGGGGCTCGGGTGCAGCGGCCAGCGGGCGCCTGGCGGCGAGGATTACCC
GGGGAAGTGGTTGTCTCCTGGCTGGAGCCGCGAGACGGGCGCTCAGGGCGCGGGTTCGTC
GTTGGCGAACGAGAGGACGGACTCTGGCGGCCGGGTCGTTGGCCGCGGGGAGCGCGGGCA
CCGGGCGAGCAGGCCGCGTCGCGCTCACCATGGTCAGCTACTGGGACACCGGGGTCCTGC
TGTGCGCGCTGCTCAGCTGTCTGCTTCTCACAGGATCTAGTTCAGGTTCAAAATTAAAAG
ATCCTGAACTGAGTTTAAAAGGCACCCAGCACATCATGCAAGCAGGCCAGACACTGCATC
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GATTCCACTTGACACTTTGATCCCTGATGGAAAACGCATNATCTGGGACAGTAGAAAAGG
CTTCATCATAT
```

Restriction Sites: NotI-NotI

ACCN: NM_002019

Insert Size: 7000 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: A TrueClone.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_002019.2, NP_002010.1

RefSeq Size: 7123 bp

RefSeq ORF: 4017 bp

Locus ID: 2321

UniProt ID: P17948

Cytogenetics:	13q12.3
Domains:	pkinase, TyrKc, S_TKc, ig, IGv, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion
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 (1) the longest isoform (1). Isoform 1 is a transmembrane protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.