

## Product datasheet for **SC327197**

### VEGF Receptor 1 (FLT1) (NM\_001160030) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_001160030) Human Untagged Clone
Tag:	Tag Free
Symbol:	VEGF Receptor 1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001160030 edited  
 ATGGTCAGCTACTGGGACACCGGGTCTGCTGTGCGCGCTGCTCAGCTGTCTGCTTCTC  
 ACAGGATCTAGTTCAGGTTCAAAATTAAGATCCTGAACTGAGTTTAAAGGCACCCAG  
 CACATCATGCAAGCAGGCCAGACTGCATCTCCAATGCAGGGGGGAAGCAGCCATAAA  
 TGGTCTTTGCCTGAAATGGTGAAGTAAGGAAAGCGAAAGGCTGAGCATAACTAAATCTGCC  
 TGTGGAAGAAATGGCAACAATTCTGCAGTACTTTAACCTTGAACACAGCTCAAGCAAAC  
 CACACTGGCTTCTACAGCTGCAAAATATCTAGCTGTACCTACTTCAAAGAAGAAGGAAACA  
 GAATCTGCAATCTATATATTTATTAGTGATACAGGTAGACCTTTTCGTAGAGATGTACAGT  
 GAAATCCCGGAAATTATACACATGACTGAAGGAAGGGAGCTCGTCATTCCCTGCCGGGTT  
 ACGTCACCTAACATCACTGTTACTTTAAAAAAGTTTCCACTTGACACTTTGATCCCTGAT  
 GGAAAACGCATAATCTGGGACAGTAGAAAAGGGCTTCATCATATCAAATGCAACGTACAAA  
 GAAATAGGGCTTCTGACCTGTGAAGCAACAGTCAATGGGCATTTGTATAAGACAAACTAT  
 CTCACACATCGACAAACCAATACAATCATAGATGTCAAATAAGCACACCACGCCAGTC  
 AAATTACTTAGAGGCCATACTCTTGTCTCAATTGTACTGCTACCACTCCCTTGAACACG  
 AGAGTTCAAATGACCTGGAGTTACCCTGATGAAAAAATAGAGAGCTTCCGTAAGGCGA  
 CGAATTGACCAAAGCAATTCCCATGCCAACATATTCTACAGTGTCTTACTATTGACAAA  
 ATGCAGAACAAAGACAAAGGACTTTATACTTGTGCGTGAAGGAGTGGACCATCATTCAA  
 TCTGTTAACACCTCAGTGCATATATGATAAAGCATTCACTGTGAAACATCGAAAA  
 CAGCAGGTGCTTGAACCGTAGCTGGCAAGCGGCTTACCAGGCTCTATGAAAGTGAAG  
 GCATTTCCCTCGCCGGAAGTTGTATGGTTAAAAGATGGGTTACCTGCGACTGAGAAATCT  
 GCTCGCTATTTGACTCGTGGCTACTCGTTAATTATCAAGGACGTAAGTGAAGAGGATGCA  
 GGAATTATACAATCTTGTGAGCATAAAACAGTCAAATGTGTTAAAAACCTCACTGCC  
 ACTCTAATTGTCAATGTGAAACCCAGATTTACGAAAAGGCCGTGTCATCGTTTCCAGAC  
 CCGGCTCTTACCCTACTGGGACGACGACAAATCCTGACTTGTACCGCATATGGTATCCCT  
 CAACCTACAATCAAGTGGTTCTGGCACCCCTGTACCATAATCATTCCGAAGCAAGGTGT  
 GACTTTTGTTCATAATGAAGAGTCCTTTATCCTGGATGCTGACAGCAACATGGGAAAC  
 AGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAGGAAAGAATAAGATGGCTAGC  
 ACCTTGGTTGTGGCTGACTCTAGAATTTCTGGAATCTACATTTGCATAGCTTCCAATAAA  
 GTTGGGACTGTGGGAAGAAACATAAGCTTTTATACACAGATGTGCCAAATGGGTTTCAT  
 GTTAACTTGAAAAAATGCCGACGAAGGAGAGGACCTGAACTGTCTTGCACAGTTAAC  
 AAGTTCTTATACAGAGACGTTACTTGGATTTTACTGCGGACAGTTAATAACAGAACAATG  
 CACTACAGTATTAGCAAGCAAAAAATGGCCATCACTAAGGAGCACTCCATCACTCTTAAT  
 CTTACCATCATGAATGTTTCCCTGCAAGATTCAGGCACCTATGCCTGCAGAGCCAGGAAT  
 GTATACACAGGGGAAGAAATCCTCCAGAAGAAAGAAATTAACAATCAGAGATCAGGAAGCA  
 CCATACCTCCTGCGAAACCTCAGTGATCACACAGTGGCCATCAGCAGTTCCACCCTTTA  
 GACTGTATGCTAATGGTGTCCCGAGCCTCAGATCACTTGGTTAAAAACAACCACAAA  
 ATACAACAAGAGCCTGAACTGTATACATCAACGTCACCATCGTCATCATCATACCA  
 TTGTCATCATCATCATCATCGTCATCATCATCATCATATAG

**Restriction Sites:** Please inquire

**ACCN:** NM\_001160030

**Insert Size:** 2900 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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001160030.1</a></u> , <u><a href="#">NP_001153502.1</a></u>
<b>RefSeq Size:</b>	2968 bp
<b>RefSeq ORF:</b>	2202 bp
<b>Locus ID:</b>	2321
<b>UniProt ID:</b>	<u><a href="#">P17948</a></u>
<b>Cytogenetics:</b>	13q12.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Secreted Protein
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded soluble protein (isoform 3) has a shorter, distinct C-terminus and lacks the transmembrane and cytoplasmic regions of isoform 1.</p>