

Product datasheet for **SC327631**

VEGF Receptor 1 (FLT1) (NM_001159920) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_001159920) Human Untagged Clone
Tag:	Tag Free
Symbol:	FLT1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001159920, the custom clone sequence may differ by one or more nucleotides

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ATGGTCAGCTACTGGGACACCGGGTCTGCTGTGCGCGCTGCTCAGCTGTCTGCTTCTC
ACAGGATCTAGTTCAGGTTCAAATTAAGATCCTGAACTGAGTTTAAAGGCACCCAG
CACATCATGCAAGCAGGCCAGACTGCATCTCCAATGCAGGGGGAAGCAGCCATAAA
TGGTCTTTGCCTGAAATGGTGAGTAAGGAAAGCAGAAAGGCTGAGCATAACTAAATCTGCC
TGTGGAAGAAATGGCAAACAATCTGCAGTACTTAACTTGAACACAGCTCAAGCAAAC
CACACTGGCTTCTACAGCTGCAAATATCTAGCTGTACCTACTTCAAAGAAGAAACA
GAATCTGCAATCTATATATTTATTAGTGATACAGGTAGACCTTTCGTAGAGATGTACAGT
GAAATCCCGAAATTATACACATGACTGAAGGAAGGGAGCTCGTCATTCCCTGCCGGGT
ACGTCACCTAACATCACTGTTACTTTAAAAAGTTTCCACTTGACACTTTGATCCCTGAT
GGAAAACGCATAATCTGGGACAGTAGAAAGGGCTTCATCATATCAAATGCAACGTACAAA
GAAATAGGGCTTCTGACCTGTGAAGCAACAGTCAATGGGCATTTGTATAAGACAACTAT
CTCACACATCGACAAACCAATACAATCATAGATGTCAAATAAGCACACCAGCCCAGTC
AAATTACTTAGAGCCATACTCTGTCCCTCAATTGACTGCTACCACTCCCTTGAACACG
AGAGTTCAAATGACCTGGAGTACCCTGATGAAAAAATAGAGAGCTTCCGTAAGGCGA
CGAATTGACCAAAGCAATTCCCATGCCAACATATTCTACAGTGTCTTACTATTGACAAA
ATGCAGAACAAAGACAAAGGACTTTATACTTGTGCGTGAAGGAGTGGACCATCATTCAA
TCTGTTAACACCTCAGTGCATATATGATAAAGCATTCACTGTGAAACATCGAAAA
CAGCAGGTGCTTGAAACCGTAGCTGGCAAGCGGCTTACCAGGCTCTATGAAAGTGAAG
GCATTTCCCTCGCCGAAGTTGTATGGTTAAAAGATGGTTACCTGCGACTGAGAAATCT
GCTCGCTATTTGACTCGTGGCTACTCGTTAATTATCAAGGACGTAAGTGAAGAGGATGCA
GGGAATTATACAATCTTGTGAGCATAAAACAGTCAAATGTGTTTAAAAACCTCACTGCC
ACTCTAATTGTCAATGTGAAACCCAGATTTACGAAAAGGCCGTGCATCGTTTCCAGAC
CCGGCTCTTACCCTGAGGAGCAGACAAATCCTGACTTGTACCGCATATGGTATCCCT
CAACCTACAATCAAGTGGTTCTGGCACCCCTGTAACCATAATCATTCCGAAGCAAGGTGT
GACTTTTGTCCAATAATGAAGAGTCTTTATCCTGGATGCTGACAGCAACATGGGAAAC
AGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAGGAAAGAATAAGATGGCTAGC
ACCTTGGTTGGGCTGACTCTAGAATTTCTGGAATCTACATTTGCATAGCTTCCAATAAA
GTTGGGACTGTGGGAAGAAACATAAGCTTTTATATCACAGATGTGCCAAATGGGTTTCAT
GTTAAGCTTGGAAAAATGCCGACGGAAGGAGAGGACCTGAAACTGTCTTGCACAGTTAAC
AAGTTCTTATACAGAGAGTACTTGGATTTTACTGCGGACAGTTAATAACAGAAACAATG
CACTACAGTATTAGCAAGCAAAAAATGGCCATCACTAAGGAGCACTCCATCACTCTTAAT
CTTACCATCATGAATGTTTCCCTGCAAGATTCAGGCACCTATGCCTGCAGAGCCAGGAAT
GTATACACAGGGGAGAAATCCTCCAGAAGAAAGAAATTAACAATCAGAGGTGAGCACTGC
AACAAAAAGGCTGTTTCTCTCGGATCTCCAAATTTAAAGCACAAAGGAATGATTGTACC
ACACAAAGTAATGTAACAT

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Restriction Sites: Please inquire

ACCN: NM_001159920

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:	<ol style="list-style-type: none">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:	<u>NM_001159920.1</u> , <u>NP_001153392.1</u>
RefSeq Size:	6499 bp
RefSeq ORF:	2064 bp
Locus ID:	2321
UniProt ID:	<u>P17948</u>
Cytogenetics:	13q12.3
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion
Gene Summary:	<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 (2), also known as sFlt1 or sVEGFR-1, differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded soluble protein (isoform 2) has a shorter, distinct C-terminus and lacks the transmembrane and cytoplasmic regions of isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>