

Product datasheet for **SC323583**

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:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323583 sequence for NM_002019 edited (data generated by NextGen Sequencing)

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ATGGTCAGCTACTGGACACCGGGTCTGCTGTGCGCGTCTCAGCTGTCTGCTTCTC
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AGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAGGAAAGAATAAGATGGCTAGC
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AGCGAAGGCAAGCGCAGGTTACCTACGACCACGCTGAGCTGAAAGGAAATCGCGTGC
TGCTCCCCGCCCCAGACTACAACCTCGGTGGTCTGACTCCACCCACCCATCTAG

Clone variation with respect to NM_002019.4

2582 a=>t;2583 a=>g;3204 t=>c;3639 c=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_002019 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCGCTCGGAGCGGCCAGGCGGACACTCCTC TCGGCTCCTCCCCGGCAGCGGCGCGGCTCGGAGCGGGCTCCGGGGCTCGGGTGCAGCGGCCAGCGGGCG CCTGGCGCGGAGGATTACCCGGGAAGTGGTTGTCTCTGGCTGGAGCCGCGAGACGGGCGCTCAGGGCG CGGGCCGCGGCGGCGGAACGAGAGGACGGACTTGGCGGCCGGTCTGTTGGCCGCGGGAGCGCGGGCA CCGGCGAGCAGGCCGCTCGCGCTCACCATGGTCAGCTACTGGGACACCGGGTCTGCTGTGCGCGCT GCTCAGCTGTCTGCTTTCACAGGGATCTAGTTCAGGGTTCAAATAAAAAATCCTGACCTGGAGTTA AAAAGGCCCCCCAGCACCATCATGCCAGCCAGGCCAGGAACCTGCATCCTCAAATGCAGGGGGGAGGACG GCCAATAAATGGTCTTTGCCTGAAATTGTGGAGAAAGGAAAGCGAAAGGTTAAGCAAACTTAATCCGCC TGGGGAGAAAAATGAAAAACAATCCGCGAACCTTTAACCTGAAACAGCTTCAGCCAACCACCCTGGCTT CCACCCGCTGCAAATTCTAGCTGTACCTACTCCAAGAGGAAGGGACAGGATCTCGCATCCATATAGTATA AGGTACCCGGTGAACCTTTCTAGAGATGTATCAGTGAATCCCGAATATACCCTGACTCGAGAGAGAGAC TCGCATCTGTGCGTACTCACTACATACCTGTGACTTAAAGGTCACTTGACCCTGTATCCCTGAGAACG CATATCTTGAATTAAGGCTCTTCATACCGCTCAAGAATAGCTGACCTGTGACAGCTATGGCGTGTGATC AC
Kinase Domain Sequence:	>SC323583 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation ARGRMTTAACTGGCAATCACTTGAAGAGGGGCTTTTGGAAAGTGGTTCAAGCATCAGCATTGGCATT AAGAAATCACCTACGTGCCGACTGTGGCTGTGATGATGCTGAAAGAGGGGGCCACGGCCAGCGAGTACA AAGCTCTGATGACTGAGCTAAAAATCTTGACCCACATTGGCCACCATCTGAACGTGGTTAACCTGCTGGG AGCCTGCACCAAGCAAGGAGGGCCTCTGATGGTATTGTTGAATA
Restriction Sites:	Please inquire
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:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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:	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:	<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 (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.</p>