

Product datasheet for **RC600026**

VEGF Receptor 1 (FLT1) (NM_002019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_002019) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	VEGF Receptor 1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RC600026 representing leader sequence plus the extracellular domain region of NM_002019

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGGTCAGCTACTGGACACCGGGTCTGCTGTGCGCGTCTGCTCAGCTGTCTGCTTCTCACAGGATCTA
GTTTCAGGTTCAAATAAAGATCCTGAACTGAGTTTAAAGGCACCCAGCACATCATGCAAGCAGGCCA
GACTGTCATCTCCAATGCAGGGGGAAGCAGCCATAAATGGTCTTTCCTGAAATGGTGAAGGAA
AGCGAAAGGCTGAGCATAACTAAATCTGCCTGTGGAAGAAATGGCAAACAATTCTGCAGTACTTTAACCT
TGAACACAGCTCAAGCAAACCACACTGGCTTCTACAGCTGCAAATATCTAGCTGTACCTACTTCAAAGAA
GAAGGAAACAGAACTGCAATCTATATATTTATTAGTGATACAGGTAGACCTTTCGTAGAGATGTACAGT
GAAATCCCGAAATTATACATGACTGAAGGAAGGGAGCTCGTATTCCCTGCCGGTTACGTACCTA
ACATCACTGTTACTTTAAAAAGTTTCCACTTGACACTTTGATCCCTGATGGAAAACGCATAATCTGGGA
CAGTAGAAAGGGTTCATCATATCAAATGCAACGTACAAAAGAAATAGGGCTTCTGACCTGTGAAGCAACA
GTCAATGGGCATTTGTATAAGACAAACTATCTCACACATCGACAAACCAATAACAATCATAGATGTCCAAA
TAAGCACACCACGCCAGTCAAATTAAGAGCCATACTCTTGTCTCAATTGTACTGTACCTACCCTCC
CTTGAACACGAGAGTTCAAATGACCTGGAGTTACCCTGATGAAAAAATAAGAGAGCTTCCGTAAGGCGA
CGAATTGACCAAAGCAATCCCATGCCAACATATTCTACAGTGTCTTACTATTGACAAAATGCAGAACAA
AAGACAAAGGACTTTATACTTGTGCGTAAGGAGTGGACCATTCAAATCTGTTAACACCTCAGTGCA
TATATATGATAAAGCATTCACTGTGAAACATCGAAAACAGCAGGTGCTTGAACCGTAGCTGGCAAG
CGGTCTTACCGGCTCTATGAAAGTGAAGGCATTTCCCTCGCCGGAAGTTGTATGGTTAAAAGATGGGT
TACCTGCGACTGAGAAATCTGCTCGCTATTTGACTCGTGGCTACTCGTTAATTATCAAGGACGTAAGTGA
AGAGGATGCAGGGAATTATAAATCTTGTGAGCATAAAACAGTCAAATGTGTTTAAAAACCTCACTGCC
ACTCTAATTGTCAATGTGAAACCCAGATTTACGAAAAGGCCGTGTCATCGTTTCCAGACCCGGCTCTCT
ACCCACTGGGCAGCAGACAAATCCTGACTTGTACCGCATATGGTATCCCTCAACCTACAATCAAGTGGTT
CTGGCACCCCTGTAACCAATCATTCCGAAGCAAGGTGTGACTTTTGTCCAATAATGAAGAGTCTTTT
ATCCTGGATGCTGACAGCAACATGGGAAACAGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAG
GAAAGAATAAGATGGCTAGCACCTTGGTTGTGGCTGACTCTAGAATTTCTGGAATCTACATTTGCATAGC
TTCCAATAAAGTTGGGACTGTGGGAAGAACATAAGCTTTTATATCACAGATGTGCCAAATGGGTTTCAT
GTTAAGTTGAAAAAATGCCGACGGAAGGAGAGGACCTGAAACTGTCTTGACAGTTAACAAGTTCTTAT
ACAGAGACGTTACTTGGATTTTACTGCGGACAGTTAATAACAGAACAAATGCACTACAGTATTAGCAAGCA
AAAAATGGCCATCACTAAGGAGCACTCCATCACTCTTAATCTTACCATCATGAATGTTTCCCTGCAAGAT
TCAGGCACCTATGCCTGCAGAGCCAGGAATGTATACACAGGGGAAGAAATCCTCCAGAAGAAAGAAATTA
CAATCAGAGATCAGGAAGCACCATACCTCCTGCGAAACCTCAGTGATCACACAGTGGCCATCAGCAGTTC
CACCCTTTAGACTGTCATGCTAATGGTGTCCCGAGCCTCAGATCACTTGGTTTAAAAACAACCACAAA
ATACAACAAGAGCCTGGAATATTTTAGGACCAGGAAGCAGCAGCTGTTTATTGAAAGAGTCACAGAAG
AGGATGAAGGTGTCTATCACTGCAAAGCCACCAACCAGAAGGGCTCTGTGAAAGTTCAGCATACCTCAC
TGTTCAAGGAACCTCGGACAAGTCTAATCTGGAG

ACGCGTTCAGGGCACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence: >RC600026 representing signal peptide plus the extracellular domain region of NM_002019
Red=Cloning sites **Green**= DDK and 6XHIS Tags

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKPELSLKGTQHIMQAGQTLHLQCRGEAAHKWSLPEMVSKE
SERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKESESAYIFISDTGRPFVEMYS
EIP EIIHMTEGRELVIPCRVTSFNITVTLKFFPLDLPDGKRIIWDNRKGFIIISNATYKEIGLLTCEAT
VNGHLYKTNYLTHRQNTIIDVQISTPRPVKLLRGHTLVNCTATPLNTRVQMTWSYPDEKNKRASVRR
RIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRSRGSFYSVNTSVHIYDKAFITVKHRKQVLETVAGK
RSYRLSMKVKAFPSPEVVWLKDGLPATEKSARYLTRGYSLLIKDVTEEDAGNYTILLSIKQSNVFNLTAL
TLIVNVKPKIYEKAVSSFPDPALYPLGSRQILCTAYGIPQPTIKWFHPCNHNHSEARCDFCSNNEESF
ILDADSNMGNRIESITQRMAIIEGKNKMASTLVVADSRISGIYICIASNKVGTVGRNISFYITDVPNGFH
VNLEKMPTEGEDLKLCTVKNFLYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSLQD
SGTYACRARNVYTGEEILQKKEITIRDQEAPYLLRNLS DHTVAISSSTLTDCHANGVPEPQITWFKNNHK
IQQEPGIILGPGSSTLFIERVTEEDEGVYHCKATNQKGSVESSAYLTVQGTSDKSNLE

TRSGTRSGDYKDDDDKGSHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8117_e07.zip

Restriction Sites: Sgfl-Mlul

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_002019.4 , NP_002010.2
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
MW:	85.1 kDa
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>