

Product datasheet for **RC228562**

VEGF Receptor 1 (FLT1) (NM_001160030) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_001160030) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VEGF Receptor 1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228562 representing NM_001160030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAGCTACTGGACACCGGGTCTGCTGTGCGCGTCTGCTCAGCTGTCTGCTTCTCACAGGATCTA
 GTCAGGTTCAAATTTAAAGATCCTGAACTGAGTTTAAAGGCACCCAGCACATCATGCAAGCAGGCCA
 GACTGTCATCTCCAATGCAAGGGGAAGCAGCCATAAATGGTCTTTGCCTGAAATGGTGAAGGAA
 AGCGAAAGGCTGAGCATAACTAAATCTGCCTGTGGAAGAAATGGCAAACAATTCTGCAGTACTTTAACCT
 TGAACACAGCTCAAGCAAACCACTGGCTTCTACAGCTGCAAATATCTAGCTGTACCTACTTCAAAGAA
 GAAGGAAACAGAATCTGCAATCTATATTTTATTAGTGATACAGGTAGACCTTTCGTAGAGATGTACAGT
 GAAATCCCGAAATTATACATGACTGAAGGAAGGGAGCTCGTCATTCCCTGCCGGTTACGTCACCTA
 ACATCACTGTTACTTTAAAAAGTTTCCACTTGACACTTTGATCCCTGATGGAAAACGCATAATCTGGGA
 CAGTAGAAAGGGTTCATCATATCAAATGCAACGTACAAAGAAATAGGGCTTCTGACCTGTGAAGCAACA
 GTCATGGGCATTTGTATAAGACAACTATCTCACACATCGACAAACCAATAACAATCATAGATGTCCAAA
 TAAGCACACCACGCCAGTCAAATTAAGAGGCCATACTCTTGTCTCAATTGTACTGCTACCACTCC
 CTTGAACACGAGAGTTCAAATGACCTGGAGTTACCCTGATGAAAAAATAAGAGAGCTTCCGTAAGGCGA
 CGAATTGACCAAAGCAATTCCTGCAACATATCTACAGTGTCTTACTATTGACAAAATGCAGAACA
 AAGACAAAGGACTTTATACTTGTGCGTGAAGGAGTGACCATCATTCAAATCTGTTAACACCTCAGTGCA
 TATATATGATAAAGCATTCACTGTGAAACATCGAAAACAGCAGGTGCTTGAACCGTAGCTGGCAAG
 CGGTCTTACCGGCTCTCTATGAAAGTGAAGGCATTTCCCTCGCCGGAAGTTGTATGGTAAAAGATGGGT
 TACCTGCGACTGAGAAATCTGCTCGCTATTTGACTCGTGGCTACTCGTTAATTATCAAGGACGTAACCTGA
 AGAGGATGCAGGGAATTATACAATCTTGTGCTGAGCATAAAACAGTCAAATGTGTTTTAAAAACCTCACTGCC
 ACTCTAATTGTCAATGTGAAACCCAGATTTACGAAAAGGCCGTGTCATCGTTTTCCAGACCCGGCTCTCT
 ACCCACTGGGCAGCAGACAAATCCTGACTTGTACCGCATATGGTATCCCTCAACCTACAATCAAGTGGTT
 CTGGCACCCCTGTAACCAATATCATTCCGAAGCAAGGTGTGACTTTTGTCCAATAATGAAGAGTCTTTT
 ATCCTGGATGCTGACAGCAACATGGGAAACAGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAG
 GAAAGAATAAGATGGCTAGCACCTTGGTTGTGGCTGACTCTAGAATTTCTGGAATCTACATTTGCATAGC
 TTCCAATAAAGTTGGGACTGTGGGAAGAAACATAAGCTTTTATATCACAGATGTGCCAAATGGGTTTCAT
 GTTAACCTGGAAAAAATGCCGACGGAAGGAGGACCTGAAACTGTCTTGACAGTTAACAGTTCTTAT
 ACAGAGACGTTACTTGGATTTTACTGCGGACAGTTAATAACAGAACAAATGCACTACAGTATTAGCAAGCA
 AAAAATGGCCATCACTAAGGAGCACTCCATCACTCTTAATCTTACCATCATGAATGTTTCCCTGCAAGAT
 TCAGGCACCTATGCCTGCAGAGCCAGGAATGTATACACAGGGGAAGAAATCCTCCAGAAGAAAGAAATTA
 CAATCAGAGATCAGGAAGCACCATACCTCCTGCGAAACCTCAGTGATCACACAGTGGCCATCAGCAGTTC
 CACCCTTTAGACTGTCATGCTAATGGTGTCCCGAGCCTCAGATCACTTGGTTTTAAAAACAACCACAAA
 ATACAACAAGAGCCTGAACTGTATACATCAACGTACCATCGTCATCGTCATCATCACCATTGTCATCAT
 CATCATCATCGTCATCATCATCATCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence: >RC228562 representing NM_001160030
 Red=Cloning site Green=Tags(s)

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGTHIMQAGQTLHLQCRGEAAHKWSLPEMVSKE
 SERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMYS
 EIPEIIHMTEGRELVIPCRVTSNPITVTLKFKPLDLPDGKRIIWSRKGFIISNATYKEIGLLTCEAT
 VNGHLYKTNYLTHRQNTIIDVQIISTPRPVKLLRGHTLVNCTATPLNTRVQMTWSPDEKNKRASVRR
 RIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQVLETVAGK
 RSYRLSMKVKAFPSPEVVWLKDGLPATEKSARYLTRGYSLLIKDVTEEDAGNYTILLSIKQSNVFKNLTA
 TLIVNVKQPIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFHPCNHNHSEARCDFCSNNEESF
 ILDADSNMGNRIESITQRMATIEGKNKMASTLVVADSRISGIYICIASNKVGTGVRNRSFYITDVPNGFH
 VNLEKMPTEGEDLKLCTVNKFLYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSLQD
 SGTYACRARNVYTGEEILQKKEITIRDQEAPYLLRNLSHDHTVAISSSTLLDCHANGVPEPQITWFKNNHK
 IQEPELYTSTSPSSSSSSPLSSSSSSSSSSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001160030

ORF Size: 2199 bp

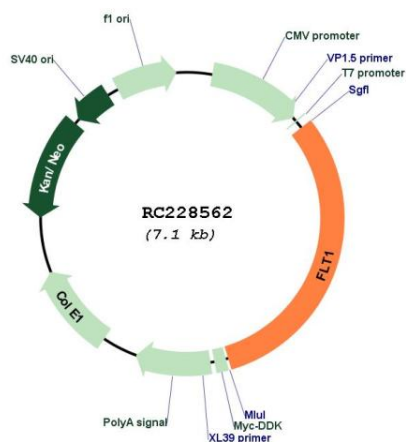
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001160030.2
RefSeq ORF:	2202 bp
Locus ID:	2321
UniProt ID:	P17948
Cytogenetics:	13q12.3
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion
MW:	82.12 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>

Product images:



Circular map for RC228562