

Product datasheet for RC224406

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:	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)
ORF Nucleotide Sequence:	>RC224406 representing NM_002019 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAGCTACTGGGACACCGGGTCTGCTGTGCGCGCTGCTCAGCTGTCTGCTTCTCACAGGATCTA
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ATCCTGGATGCTGACAGCAACATGGGAAACAGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAG
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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224406 representing NM_002019
 Red=Cloning site Green=Tags(s)

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGTHIMQAGQTLHLQCRGEAAHKWSPPEMVSKE
 SERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKESESAYIFISDTGRPFVEMYS
 EIPEI IHMTEGRELVIPCRVTSNITVTLKFKPLDLPDGKRIIWSRKGFIISNATYKEIGLLTCEAT
 VNGHLYKTNLTHRQNTIIDVQIISTPRPVKLLRGHTLVNCTATPLNTRVQMTWSYPDEKNKRASVRR
 RIDQSNSHANIFYSVLTIIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVXHRKQVLETVAGK
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 TLIVNVKQIYEKAVSSFPDPALYPLGSRQILCTAYGIPQPTIKWFHPCHNHSEARCDFCSNNEESF
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 VVQASAFGIKKSPTCRTVAVKMLKEGATASEYKALMTELKILTHIGHLNVVNLGACTKQGGPLMVIVE
 YCKYGNLSNYLKSQRDLFFLNKDAALHMEPKKEKMEPGLQGGKPRLDVTSSESFASSGFQEDKSLSDV
 EEEEDSDGFYKEPITMEDLISYSFQVARGMEFLSSRKCIHRDLAARNILLSENNVVKICDFGLARDIYKN
 PDYVRKGDTRLPLKWMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMDDFCSRLREGMRMR
 APEYSTPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQDGKDYIPINAILTGNSTGFTYSTPAFS
 EDFFKESISAPKFNSGSSDDVRYVNAFKFMSLERIKTFEELLPNATSMFDDYQGDSTLLASPMLKRFTW
 TDSKPKASLKIDLRVTSKSKESGLSDVSRPSFCHSSCGHVSEGKRRFTYDHAELERKIACSSPPPDYNSV
 VLYSTPPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2577_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



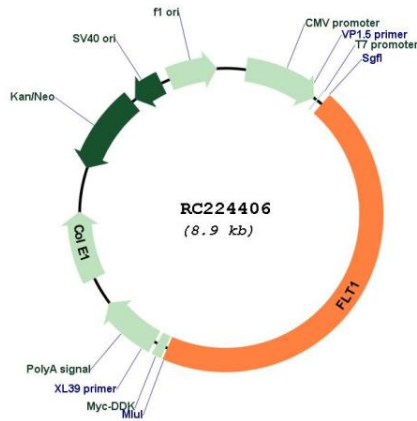
* The last codon before the Stop codon of the ORF

ACCN: NM_002019

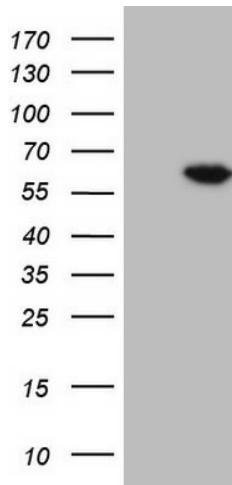
ORF Size: 4014 bp

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_002019.4 , NP_002010.2
RefSeq Size:	5777 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:	150.77 kDa
Gene Summary:	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]

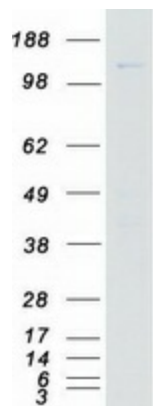
Product images:



Circular map for RC224406



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FLT1 (Cat# RC224406, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FLT1 (Cat# [TA806786]).



Coomassie blue staining of purified FLT1 protein (Cat# [TP324406]). The protein was produced from HEK293T cells transfected with FLT1 cDNA clone (Cat# RC224406) using MegaTran 2.0 (Cat# [TT210002]).