

Product datasheet for **RG228996**

VEGF Receptor 1 (FLT1) (NM_001159920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VEGF Receptor 1 (FLT1) (NM_001159920) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLT1
Synonyms:	FLT; FLT-1; VEGFR-1; VEGFR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG228996 representing NM_001159920
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAGCTACTGGACACCGGGTCCTGCTGTGCGCGTCTCAGCTGTCTGCTTCTCACAGGATCTA
 GTCAGGTTCAAATTTAAAGATCCTGAACTGAGTTTAAAGGCACCCAGCACATCATGCAAGCAGGCCA
 GACTGTCATCTCCAATGCAGGGGGAAGCAGCCATAAATGGTCTTTGCCTGAAATGGTGAAGGAA
 AGCGAAAGGCTGAGCATAACTAAATCTGCCTGTGGAAGAAATGGCAAACAATTCTGCAGTACTTTAACCT
 TGAACACAGCTCAAGCAAACCACTGGCTTCTACAGCTGCAAATATCTAGCTGTACCTACTTCAAAGAA
 GAAGGAAACAGAATCTGCAATCTATATTTTATTAGTGATACAGGTAGACCTTTCGTAGAGATGTACAGT
 GAAATCCCGAAATTATACATGACTGAAGGAAGGGAGCTCGTCATTCCCTGCCGGTTACGTCACCTA
 ACATCACTGTTACTTTAAAAAAGTTCCACTTGACACTTTGATCCCTGATGGAAAACGCATAATCTGGGA
 CAGTAGAAAGGGCTTCATCATATCAAATGCAACGTACAAAGAAATAGGGCTTCTGACCTGTGAAGCAACA
 GTCAATGGGCATTTGTATAAGACAACTATCTCACACATCGACAAACCAATAACAATCATAGATGTCCAAA
 TAAGCACACCACGCCAGTCAAATTAAGAGCCATACTCTTGTCTCAATTGTACTGCTACCACTCC
 CTTGAACACGAGAGTTCAAATGACCTGGAGTTACCCTGATGAAAAAATAAGAGAGCTTCCGTAAGGCGA
 CGAATTGACCAAAGCAATTTCCATGCCAACATATTCTACAGTGTCTTACTATTGACAAAATGCAGAAC
 AAGACAAAGGACTTTATACTTGTGCGTGAAGGAGTGGACCATCATTCAAATCTGTTAACACCTCAGTGCA
 TATATATGATAAAGCATTCACTGTGAAACATCGAAAACAGCAGGTGCTTGAACCGTAGCTGGCAAG
 CGGTCTTACCGGCTCTCTATGAAAGTGAAGGCATTTCCCTCGCCGGAAGTTGTATGGTTAAAGATGGGT
 TACCTGCGACTGAGAAATCTGCTCGCTATTTGACTCGTGGCTACTCGTTAATTATCAAGGACGTA
 ACTGAGGATGCAGGGAATTATACAATCTTGCTGAGCATAAAACAGTCAAATGTGTTTAAAAACCTCACTGCC
 ACTCTAATTGTCAATGTGAAACCCAGATTTACGAAAAGGCCGTGTCATCGTTTCCAGACCCGGCTCTCT
 ACCCACTGGGCAGCAGACAAATCCTGACTTGTACCGCATATGGTATCCCTCAACCTACAATCAAGTGGTT
 CTGGCACCCCTGTAACCAATCATTCCGAAGCAAGGTGTGACTTTTGTCCAATAATGAAGAGTCTTTT
 ATCCTGGATGCTGACAGCAACATGGGAAACAGAATTGAGAGCATCACTCAGCGCATGGCAATAATAGAAG
 GAAAGAATAAGATGGCTAGCACCTTGGTTGTGGCTGACTCTAGAATTTCTGGAATCTACATTTGCATAGC
 TTCCAATAAAGTTGGGACTGTGGGAAGAAACATAAGCTTTTATATCACAGATGTGCCAAATGGGTTTCAT
 GTTAACCTGGAAAAAATGCCGACGGAAGGAGGACCTGAACTGTCTTGACAGTTAACAGTTCTTAT
 ACAGAGACGTTACTTGGATTTTACTGCGGACAGTTAATAACAGAACAAATGCACTACAGTATTAGCAAGCA
 AAAAATGGCCATCACTAAGGAGCACTCCATCACTCTTAATCTTACCATCATGAATGTTTCCCTGCAAGAT
 TCAGGCACCTATGCCTGCAGAGCCAGGAATGTATACACAGGGGAAGAAATCCTCCAGAAGAAAGAAATTA
 CAATCAGAGGTGAGCACTGCAACAAAAAGGCTGTTTTCTCTCGGATCTCCAAATTTAAAGCACAAAGGAA
 TGATTGTACCACAAAAGTAATGTAACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228996 representing NM_001159920
 Red=Cloning site Green=Tags(s)

MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGTHIMQAGQTLHLQCRGEAAHKWSPPEMVSKE
 SERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKESESAYIFISDTGRPFVEMYS
 EIPEIIHMTEGRELVIPCRVTSNPITVTLKFFPLDTLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEAT
 VNGHLYKTNLTHRQNTIIDVQISTPRPVKLLRGHTLVLNCTATPLNTRVQMTWSYPDEKNKRASVRR
 RIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQVLETVAGK
 RSYRLSMKVKAFPSPEVVWLKDGLPATEKSARYLTRGSLI IKDVTEEDAGNYTILLSIKQSNVFKNLTA
 TLIVNVKPKIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFHPCNHNHSEARCDFCSNNEESF
 ILDADSNMGNRIESITQRMAIEGKNKMASTLVVADSRISGIYICIASNKVGTVGRNISFYITDVPNGFH
 VNLEKMPTEGEDLKLCTVNKFLYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSQD
 SGTYACRARNVYTGEEILQKKEITIRGEHCNKKA VFSRISKFKSTRNDCTTQSNVKH

TRTRPLE - GFP Tag - V

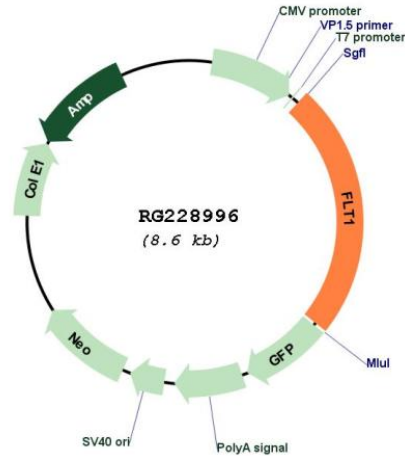
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001159920

ORF Size: 2061 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

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_001159920.2](#)

RefSeq Size: 6499 bp

RefSeq ORF: 2064 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

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]