

## Product datasheet for RN201567

### Flt1 (NM\_019306) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Flt1 (NM_019306) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Flt1
Synonyms:	FLT-1; VEGFR-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN201567 representing NM_019306 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTCAGCTGCTGGGACACCGGGTCTGCCTTGC GCGCTGCTCGGGTGTCTGCTTCTCACAGGATATT  
GTTCCAGGGTCAAGTTAAAAGGACCAGAAGTCTGAGTTTAAAAGGCCACCCAGCACGTCATGCAAGCGGGCCA  
GACTCTCTTTCTCAAGTGCAGAGGGGAGGCAGCCACTCTGGTCTCTGCCTACTACAGTGAGCCAGGAG  
GACAAAAAGCTGAGCGTCACTAGATCAGCCTGTGGAAGGAATAACAGACAATTCTGCAGCACCTTGACCT  
TGAACATGGCGCAGGCCAACACACGGGCTCTACTCCTGCAGATACCTGCCTAAATCCACCTCGAAGGA  
AAAGAAAATGGAATCTGCAATCTACATATTTGTTAGTGTGCAGGGAGTCTTTTCATAGAGATGCACAGT  
GACATACCCAAACTCGTGACATGACAGAAGGAAGAGAGCTCATCATCCCTGCCGGGTGACGTCTCCCA  
ACATCACAGTCACTCTAAAAAGTTTCCATTTGACGCTCTTACCCTGACGGGCAAGAATAGCGTGGGA  
CAGTAGGAGAGGCTTTATAATAGCAATGCAACGTACAAAGAGATAGGACTGCTGACCTGCGAAGCCACA  
GTTAACGGGCACCTGTACCAGACAAGTTATCTGACCCATCGGCAGACCAATACAATCCTAGATGTCCAAA  
TAAGCCACCGAGCCCGTGAGATTCTCCGGTCAAACCTTTGTCTCACTGACCCGTCACCACGGA  
CCTCAATACAAGGTGCAGATGAGCTGGAATTACCCTGGTAAAGCAACTAAGAGAGCATCTATCAGGCAG  
CGGATTGACCAAAGCAATCCCCACAGCAATGTGTTCCACAGCGTTCTTAAGATCAACAACGTGGAGAGCC  
GGGACAAGGGACTCTACACTTGTGCTGTGAAGAGTGGGTGCTCATTCCGGACTTTCAACACCTCTGTGCA  
TGTGTATGAAAAGGGATTTATCAGCGTGAAGCATCGGAAGCAACAGGTGCAGGAAACCATAGCAGGAAAA  
CGGTCCCATCGGCTGTCCATGAAAGTGAAGGCCTTCCCCTCGCCAGAAGTCTGATGGTTAAAAGATGGCG  
TACCCGCAACGGAGAAAATCTGCTCGCTATTCGGTGCATGGCTACTCGTTAATTATCAAAGATGTAAGTGC  
CGAGGACGAGGGGACTATACAATCTTGTGGGCATAAAAAGTCAAAGCTATTTAGAAACCTCACAGCC  
ACTCTCATCGTAAATGTGAAACCTCAGATCTACGAAAAGTCCGTGTCGTCCTTCAAGCCACCTCTCT  
ACCCACTGGGCAGCAGACAAGTCTCACTTGCACCGTGTATGGCATCCCTCAGCCTACCATCAAGTGGCT  
GTGGCACCCCTGTCACTACAACCTCCAAGAAAGGAATGACTTCTGCTTTGGGAGTGAAGAATCCTTC  
ATCCTGGATTCCAGCAGCAACATAGGAAACAGAATCGAGGGCATCACTCAGCGCATGATGGTCATAGAAG



GAACCAATAAGACGGTTAGCACATTGGTGGTGGCTGACTCTCGGACCCTGGAATCTACAGCTGCAAGGC  
 CTTCAATAAAATAGGGACTGTGGAGAGAGACATAAGGTTTTACGTACAGATGTGCCAAACGGCTTTCAC  
 GTTTCCTTGGAAAAGATACCAACCGAAGGAGAGGACCTGAAACTGTCCTGTGTGGTCAGTAAATCCTGT  
 ACAGAGACATTACCTGGATCCTGCTACGGACAGTTAACACAGGACCATGCACCATAGCATCAGTAAAGCA  
 AAAATGGCCACCACTCAGGACTACTCCATCACTCTGAACCTTGCATCAAGAATGTGTCTCTGGAAGAC  
 TCGGGCACCCTATGCCTGCAGAGCCAGGAACATATACACAGGGGAAGAGATCCTTCGGAAGACAGAAGTTC  
 TCGTTAGAGATTTGGAAGCGCCACTCTGCTTCAAACCTCAGTGACCACGAGGTGCCATCAGTGGCTC  
 CAGCACCCTTAGACTGTCAAGCTAGAGGTGCCCTGCGCCTCAGATCACTTGGTTCAAAAACAACCACAAA  
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 AGGATGAGGGTGTCTATAGGTGCCGAGCCACCAACCAGAAGGGGGTCTGTGAAAGCTCAGCGTACCTCAC  
 CGTGCAAGGAACCTCAGACAAGTCAAACCTGGAGCTGATCACCCTCACGTGCACGTGTGTGGCTGCGACA  
 CTCTTTTGGCTCCTTCTAACTCTTTCATCCGAAAACCTGAAGCGGTCTTCTTCCGAAGTAAAGACGGACT  
 ACCTGTCAATCATCATGGACCCAGATGAAGTCCCCTGGATGAGCAGTGTGAACGGCTGCCCTATGATGC  
 CAGCAAGTGGGAGTTTGCAGGGAGAGACTTAACTAGGCAAATCACTCGGGAGAGGGGCTTTTGGGAAG  
 GTGGTTCAGGCCTCGGCATTTGGCATTAAAGAAATCACCCACCTGCCGGACTGTGGCTGTGAAGATGTTGA  
 AAGAGGGGGCCACAGCCAGTGAAGTACAAAGCTCTGATGACCGAACTCAAGATCTTGACCCACATCGGCCA  
 TCATCTGAATGTGGTTAACCTCCTGGGAGCCTGCACCAAGCAAGGAGGGCCTCTGATGGTGTGCGGAA  
 TACTGCAAAATATGGAAACCTGTCCAACCTACCTTAAAGAGCAAACGTGACTTCTTGTCTCAACAAGGATG  
 CAGCCTTGCATATGGAGCCCAAGAAAGAAAAGCTGGAGCCAGACCTGGAGCAGGACCAGAAAACCCCGCT  
 AGACAGTGTGAGCAGCAGCGAGAGTTTACCAGCTCCGGCTTCCAGGAAGATAAGAGTGTGAGCGATGTG  
 GAAGGAGGCGAGGATTACAGTGAATCTCAAGCAGCCCTCACCATGGAAGACCTGATCTCCTACAGTT  
 TCCAAGTGGCCAGAGGCATGGAGTTTCTGCTCCAGAAAAGTGCATTATCGCGACCTGGCAGCAGGAA  
 CATCCTTTTATCTGAGAACAATGTTGTGAAGATTTGCGACTTTGGCCTGGCCCGGATATTTATAAGAAC  
 CCTGATTACGTGAGGAGAGGAGATACTCGACTTCCCCTAAAATGGATGGCTCCCGAATCCATCTTTGACA  
 AGGTCTACAGCACCAAGAGTGAAGTGTGGTCTACGGAGTGTGCTGTGGGAGATCTTTTCTTAGGGGG  
 TTCTCCATACCCAGGAGTGCAAATGGATGAAGACTTCTGTAGCCGGCTGAAGGAAGGCATGCGCATGAGA  
 ACACCAGAGTATGCCACACCTGAAATCTACCAAATCATGCTGGATTGCTGGCACAAGACCCCAAAGAAA  
 GGCCCCGTTTGTGAACTTGTGGAGAAGCTCGGTGACCTGCTTCAAGCCAATGTCCAACAGGATGGTAA  
 AGACTACATCCCCCTCAACGCCATACTGACTAGAAACAGTGGCTTACATACTCAGTCCCCACCTTCTCA  
 GAGGACTTTTTCAAGGATGGTTTACGGATCCAAAGTTTCTTCTGGAAGCTCTGATGATGTGAGATACG  
 TAAACGCTTTCAAATTCATGAGCCTGGAAGAATCAAACCTTTGAGGAGCTTTACCAAATGCCACCTC  
 CATGTTTGAAGACTATCATCTGGATACCAGCAGTCTGCTGACCTCCCCCTTGTGAAGCGATTACCTGG  
 ACTGAGACCAAGCCCAAGGCCTCAATGAAAATAGACCTGAGAATTACTAGTAAAAGCAAGGAGGCGGGG  
 TTTCCGATCTGCCCGGACCCAGCTTCTGCTTTTCCAGCTGTGGCCACATCAGGCCTGTGCGCCAGGAGGA  
 TGAAGACGACCCTGAGCTGGGAAGGAATCCTGCTGCTCTCCGCCCCAGACTACAACTCCGTGGTGTG  
 TACTCTCCCCGCTGCTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_019306  
**Insert Size:** 4011 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](mailto: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](#)

**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\\_019306.2](#), [NP\\_062179.2](#)

**RefSeq Size:** 6848 bp

**RefSeq ORF:** 4011 bp

**Locus ID:** 54251

**Cytogenetics:** 12p11

**Gene Summary:** tyrosine kinase receptor for vascular endothelial growth factor; may play a role in cell proliferation and cell survival [RGD, Feb 2006]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.