

## Product datasheet for RR201567

### Flt1 (NM\_019306) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Flt1 (NM_019306) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flt1
Synonyms:	FLT-1; VEGFR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201567 representing NM_019306 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCAGCTGCTGGGACACCGGGTCTGCCTTGC GCGCTGCTCGGGTGTCTGCTTCTCACAGGATATT  
GTTCCAGGGTGAAGTTAAAAGGACCAGAAGTGAAGTTAAAAGGCCACCCAGCACGTCATGCAAGCGGGCCA  
GACTCTCTTTCTCAAGTGCAGAGGGGAGGCAGCCACTCCTGGTCTCTGCCTACTACAGTGAAGCAGGAG  
GACAAAAAGCTGAGCGTCACTAGATCAGCCTGTGAAGGAATAACAGACAATTCTGCAGCACCTTGACCT  
TGAACATGGCGCAGGCCAACACACGGGCTCTACTCCTGCAGTACCTGCCTAAATCCACCTCGAAGGA  
AAAGAAAATGGAATCTGCAATCTACATATTTGTTAGTGATGCAGGGAGTCTTTTCATAGAGATGCACAGT  
GACATACCCAAACTCGTGCAATGACAGAAAGAGAGCTCATCATCCCTGCCGGGTGACGTCTCCCA  
ACATCACAGTCACTCTAAAAAGTTTCCATTTGACGCTCTTACCCTGACGGGCAAGAATAGCGTGGGA  
CAGTAGGAGAGGCTTTAATAGCAAAATGCAACGTACAAAGAGATAGGACTGCTGACCTGCGAAGCCACA  
GTTAACGGGCACCTGTACCAGACAAGTTATCTGACCCATCGGCAGACCAATACAATCCTAGATGTCCAAA  
TAAGCCCACCGAGCCCCGTGAGATTCTCCGTGGTCAAACCTCTTGTCTCAACTGCACCGTCAACACGGA  
CCTCAATAAAGGGTGCAGATGAGCTGGAATTACCCTGGTAAAGCAACTAAGAGAGCATCTATCAGGCAG  
CGGATTGACCAAAGCAATCCCCACAGCAATGTGTTCCACAGCGTTCTTAAGATCAACAACGTGGAGAGCC  
GGGACAAGGGACTCTACACTTGTCTGTGAAGAGTGGGTGCTCATTCCGGACTTTCAACACCTCTGTGCA  
TGTGTATGAAAAGGGATTTATCAGCGTGAAGCATCGGAAGCAACAGGTGCAGGAAACCATAGCAGAAAA  
CGGTCCCATCGGCTGTCCATGAAAGTGAAGGCCTTCCCCTCGCCAGAAGTCGATGGTAAAAGATGGCG  
TACCCGCAACGGAGAAATCTGCTCGCTATTCGGTGCATGGCTACTCGTTAATTATCAAAGATGTAAGTGC  
CGAGGACGCGAGGGACTATACAATCTTGTGGGCATAAAACAGTCAAAGCTATTTAGAAACCTCACAGCC  
ACTCTCATCGTAAATGTGAAACCTCAGATCTACGAAAAGTCCGTGTCGTCCTTCCAAGCCACCTCTCT  
ACCCACTGGGCAGCAGACAAGTCTCCTTGCACCGTGTATGGCATCCCTCAGCCTACCATCAAGTGGCT  
GTGGCACCCCTGTCACTACAACCACTCAAAGAAAGGAATGACTTCTGCTTTGGGAGTGAAGAATCCTTC



ATCCTGGATTCCAGCAGCAACATAGGAAACAGAATCGAGGGCATCACTCAGCGCATGATGGTCATAGAAG  
GAACCAATAAGACGGTTAGCACATTGGTGGTGGCTGACTCTCGGACCCCTGGAATCTACAGCTGCAAGGC  
CTTCAATAAAATAGGGACTGTGGAGAGAGACATAAGGTTTTACGTACAGATGTGCCAAACGGCTTTCAC  
GTTTCCTTGAAAAGATACCAACCGAAGGAGAGGACCTGAAACTGTCCTGTGTGGTCAGTAAATTCCTGT  
ACAGAGACATTACCTGGATCCTGCTACGGACAGTTAACACAGGACCATGCACCATAGCATCAGTAAGCA  
AAAAATGGCCACCACTCAGGACTACTCCATCACTCTGAACCTTGCATCAAGAATGTGTCTCTGGAAGAC  
TCGGGCACCTATGCCTGCAGAGCCAGGAACATATACACAGGGGAAGAGATCCTTCGGAAGACAGAAGTTC  
TCGTTAGAGATTTGGAAGCGCCACTCCTGCTTCAAACCTCAGTGACCACGAGGTGCCATCAGTGGCTC  
CAGCACCTTAGACTGTCAAGCTAGAGGTGTCCCTGCGCCTCAGATCACTTGGTTCAAAAACAACCACAAA  
ATACAACAAGAACCGGAATTATTTTAGGACCAGGAAACAGCACGCTGTTTATTGAAAGAGTCACAGAAG  
AGGATGAGGGTGTCTATAGGTGCCGAGCCACCAACCAGAAGGGGGTCTGGAAAGCTCAGCGTACCTCAC  
CGTGCAAGGAACCTCAGACAAGTCAAACCTGGAGCTGATCACCCTCACGTGCACGTGTGTGGCTGCGACA  
CTCTTTTGGCTCCTTCTAACTCTCTTCATCCGAAAACCTGAAGCGGTCTTCTTCCGAAGTAAAGACGGACT  
ACCTGTCAATCATCATGGACCCAGATGAAGTCCCCTGGATGAGCAGTGTGAACGGCTGCCCTATGATGC  
CAGCAAGTGGGAGTTTGC GCGGAGAGACTTAACTAGGCAAATCACTCGGGAGAGGGGCTTTTGGGAAG  
GTGGTTACAGGCCCTCGGCATTTGGCATTAAAGAAATCACCCACCTGCCGGACTGTGGCTGTGAAGATGTTGA  
AAGAGGGGGCCACAGCCAGTGAAGTACAAAGCTCTGATGACCGAACTCAAGATCTTGACCCACATCGGCCA  
TCATCTGAATGTGGTTAACCTCCTGGGAGCCTGCACCAAGCAAGGAGGGCCTCTGATGGTGTGATCGTGGAA  
TACTGCAAATATGGAAACCTGTCCAACCTACCTTAAAGAGCAAACGTGACTTCTTCTGTCTCAACAAGGATG  
CAGCCTTGCATATGGAGCCCAAGAAAGAAAAGCTGGAGCCAGACCTGGAGCAGGACCAGAAACCCCGCCT  
AGACAGTGTGAGCAGCAGCGAGAGTTTCCACAGCTCCGGCTTCCAGGAAGATAAGAGTGTGAGCGATGTG  
GAAGGAGGCGAGGATTACAGTGAAGTCTCAAGCAGCCCTCACCATGGAAGACCTGATCTCCTACAGTT  
TCCAAGTGGCCAGAGGCATGGAGTTTCTGTCTCCAGAAAAGTGCATTTCGCGACCTGGCAGCACGGAA  
CATCCTTTTATCTGAGAACAATGTTGTGAAGATTTGCGACTTTGGCCTGGCCCGGATATTATAAGAAC  
CCTGATTACGTGAGGAGAGGAGATACTCGACTTCCCCTAAAATGGATGGCTCCCGAATCCATCTTTGACA  
AGGTCTACAGCACCAAGAGTGAAGTGTGGTCTACGGAGTGTGCTGTGGGAGATCTTTTCTTAGGGGG  
TTCTCCATACCCAGGAGTGCAAATGGATGAAGACTTCTGTAGCCGGCTGAAGGAAGGCATGCGCATGAGA  
ACACCAGAGTATGCCACACCTGAAATCTACCAAATCATGCTGGATTGCTGGCACAAGACCCCAAAGAAA  
GGCCCCGGTTTGTGAACCTGTGGAGAAGCTCGGTGACCTGCTTCAAGCCAATGTCCAACAGGATGGTAA  
AGACTACATCCCCCTCAACGCCATACTGACTAGAAAACAGTGGCTTACATACTCAGTCCCCACCTTCTCA  
GAGGACTTTTTCAAGGATGGTTTACGGATCAAAGTTTTCATTCTGGAAGCTCTGATGATGTGAGATACG  
TAAACGCTTTCAAATTCATGAGCCTGGAAGAATCAAACCTTTGAGGAGCTTTCACCAAATGCCACCTC  
CATGTTTGAAGACTATCATCTGGATACCAGCAGTCTGCTGACCTCCCCCTTGTGGAAGCGATTACCTGG  
ACTGAGACCAAGCCCAAGGCCTCAATGAAAATAGACCTGAGAATTACTAGTAAAAGCAAGGAGGCGGGGC  
TTTCCGATCTGCCCGGACCCAGCTTCTGCTTTCCAGCTGTGGCCACATCAGGCCGTGCGCCAGGAGGA  
TGAAGACGACCCTGAGCTGGGGAAGGAATCCTGCTGCTCTCCGCCCCAGACTACAACTCCGTGGTGTG  
TACTCTCCCCGCTGCT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR201567 representing NM\_019306  
 Red=Cloning site Green=Tags(s)

MVSCWDTAVLPCALLGCLLLTG YCSGSKLKGPELSLKGTHVMQAGQTLFLKCRGEEAAHSWLSPTTVSQE  
 DKKLSVTRSACGRNNRQFCSTLTLNMAQANHTGLYSCRYLPKSTSKEKKMESAIYIFVSDAGSPFIEMHS  
 DIPKLVHMTREGRELIIPCRVTSNPITVTLKFFFDALTPDQRIAWDSRRGFIANATYKEIGLLTCEAT  
 VNGHLYQTSYLTHRQNTILDVQISPPSPVRFRLRGQTLVLNCTVTTDLNTRVQMSWNYPGKATKRASIRQ  
 RIDQSNPHSNVHFSVLKINNVESRDKGLYTCRVKSGSSFRTFNTSVHVYKGFISVKHRKQVQVETIAGK  
 RSHRLSMKVKAFFPSPEVVWLKDGVPATEKSARYSVHGYSLLIKDVAEDAGDYTILLGIKQSKLFRNLTA  
 TLIVNVKQPIYEKSVSSLPSPPLYPLGSRQVLTCTVYGIPQPTIKWLWHPCHYNHNSKERNDFCFGSEESF  
 ILDSSSNIGNRIEGITQRMMVIEGTNKTVSTLVVADSRTPGIYSCKAFNKIGTVERDIRFYVTDVPNGFH  
 VSLEKIPTGEDLKLSCVSKFLYRDITWILLRTVNNRMTMHSISKQKMATTDQYSITLNLVIKNVSLD  
 SGTYACRARNIYTGEIILRKTEVLVRDLEAPLLLQNLSDHEVSI SGSTTLDQARGVPAPQITWFKNNHK  
 IQQEPGIIILGPGNSTLFIERVTEDEGVYRCRATNQGKVVESAYLTVQGTSDKSNLELITLCTCVAAT  
 LFWLLLTFLIRKLRSSSEVKTDYLSIIMDPDEVPLDEQCERLPYDASKWEFARERLKLKSLGRGAFGK  
 VVQASAFGIKKSPTCRTCRTVAVKMLKEGATASEYKALMTELKILTHIGHHLNVVNLGACTKQGGPLMIVE  
 YCKYGNLSNYLKSkrDFCLNKDAALHMEPKKEKLEPDLQDQKPRLDSVSSSEFTSSGFQEDKSVSDV  
 EGGEDYSEISKQPLTMEDLISYSFQVARGMEFLSSRCKIHRDLAARNILLSENNVVKICDFGLARDIYKN  
 PDYVRRGDTRLPLKWMAPESIFDKVYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMEDFC SRLKEGMRMR  
 TPEYATPEIYQIMLDCWHKDPKERPRFAELVEKLGDLLQANVQDQGDYIPLNAILTRNSGFTYSVPTFS  
 EDFFKDGFDPKFHSGSSDDVRYVNAFKFMSLERIKTFEELSPNATSMFEDYHLDTSSLLTSPLLKRFTW  
 TETPKASKMIDLRLITSKSKEAGLSDLPGPSFCFSSCGHIRPVRQEDEDPELKGESCCSPPPDYNSVVL  
 YSSPPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

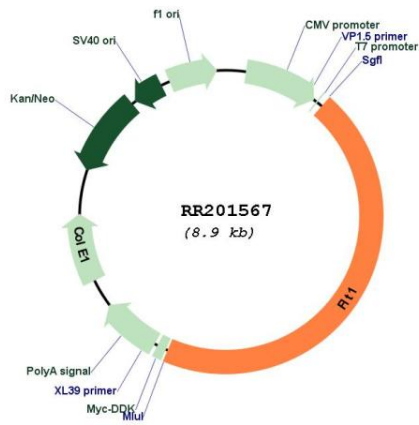


**ACCN:** NM\_019306

**ORF Size:** 4008 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<p><a href="#">NM_019306.2</a>, <a href="#">NP_062179.2</a></p>
<b>RefSeq Size:</b>	<p>6848 bp</p>
<b>RefSeq ORF:</b>	<p>4011 bp</p>
<b>Locus ID:</b>	<p>54251</p>
<b>Cytogenetics:</b>	<p>12p11</p>
<b>MW:</b>	<p>150.3 kDa</p>
<b>Gene Summary:</b>	<p>tyrosine kinase receptor for vascular endothelial growth factor; may play a role in cell proliferation and cell survival [RGD, Feb 2006]</p>

Product images:



Circular map for RR201567