

Product datasheet for **MC220689**

Flt1 (BC029674) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flt1 (BC029674) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Flt1
Synonyms:	VEGFR-1, VEGFR1, sFlt1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC029674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAGCTGCTGGACACCGGCTCTGCCTTACGCGCTGCTCGGGTGTCTGCTTCTCACAGGATATG
 GCTCAGGGTCGAAGTTAAAAGTGCTGAACTGAGTTAAAAGGCACCCAGCATGTCATGCAAGCAGGCCA
 GACTCTCTTTCTCAAGTCGAGAGGGGAGGCAGCCCACTCATGGTCTCTGCCACGACCGTGAAGCAGGAG
 GACAAAAGGCTGAGCATCACTCCCCATCGGCCTGTGGGAGGGATAACAGGCAATTCTGCAGCACCTTGA
 CCTTGGACACGGCGCAGGCCAACACACGGCCTCTACACCTGTAGATACCTCCCTACATCTACTTCGAA
 GAAAAAGAAAGCGGAATCTTCAATCTACATATTTGTTAGTGATGCAGGGAGTCTTTTCATAGAGATGCAC
 ACTGACATACCCAACTGTGCACATGACGGAAGGAAGACAGCTCATCATCCCTGCCGGGTGACGTCAC
 CCAACGTCACAGTCACCCTAAAAAGTTTCCATTTGATACTCTTACCCTGATGGCAAAGAATAACATG
 GGACAGTAGGAGAGGCTTTATAATAGCAAATGCAACGTACAAAGAGATAGGACTGCTGAACTGCGAAGCC
 ACCGTCAACGGGCACCTGTACCAGACAACTATCTGACCCATCGGCAGACCAATAACAATCCTAGATGTCC
 AAATACGCCCGCCGAGCCAGTGAAGTCTCCACGGGACAGACTCTTGTCTCAACTGCACCGCCACCAC
 GGAGCTCAATACGAGGGTGCAAATGAGCTGGAATTACCCTGGTAAAGCAACTAAGAGAGCATCTATAAGG
 CAGCGATTGACCGGTGCCATTCACACAACAATGTGTTCCACAGTGTCTTAAGATCAACAATGTGGAGA
 GCCGAGACAAGGGGCTCTACACCTGTGCGTGAAGAGTGGTCTCGTCCAGTCTTTCAACACCTCCGT
 GCATGTGTATGAAAAAGGATTCATCAGTGTAAACATCGGAAGCAGCCGGTGCAGGAAACCACAGCAGGA
 AGACGGTCTATCGGCTGTCCATGAAAGTGAAGGCCTTCCCCTCCCAGAAATCGTATGGTAAAAGATG
 GCTCGCTGCAACATTGAAGTCTGCTCGCTATTTGGTACATGGCTACTCATTAAATTAACAAGATGTGAC
 AACCGAGGATGCAGGGGACTATACGATCTTGTGGGCATAAAGCAGTCAAGGCTATTTAAAAACCTCACT
 GCCACTCTCATTGTAACGTGAAACCTCAGATCTACGAAAAGTCCGTGTCTCGCTTCCAAGCCACCTC
 TCTATCCGCTGGGCAGCAGACAAGTCTCACTTGCACCGTGTATGGCATCCCTCGGCCAACCAATCACGTG
 GCTCTGGCACCCCTGTCACCACAATCACTCCAAAGAAAGGTATGACTTCTGCACTGAGAATGAAGAATCC
 TTTATCTGGATCCCAGCAGCAACTTAGGAAACAGAATTGAGAGCATCTCTCAGCGCATGACGGTCATAG
 AAGGAACAATAAGACGGTTAGCACATTGGTGGTGGCTGACTCTCAGACCCCTGGAATCTACAGTGCCG
 GGCCTTCAATAAAATAGGACTGTGAAAGAAACATAAAATTTTATGTCACAGATGTCCGAATGGCTTT
 CACGTTTCTTGGAAAAGATGCCAGCCGAAAGGAGAGGACCTGAACTGTCTGTGTGGTCAATAAATTC
 TGTACAGAGACATTACCTGGATTCTGCTACGGACAGTTAACAACAGAACCATGCACCATAGTATCAGCAA
 GCAAAAAATGGCCACCACTCAAGATTACTCCATCACTCTGAACCTTGTCAAGAACGTGTCTCTAGAA
 GACTCGGGCACCTATGCGTGCAGAGCCAGGAACATATACACAGGGGAAGACATCCTTCGGAAGACAGAAG
 TTCTCGTTAGAGGTGAGCACTGCGGCAAAAAGGCCATTTTCTCTCGGATCTCCAATTTAAAAGCAGGAG
 GAATGATTGTACCACACAAGTCATGTCAAACATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC029674

Insert Size: 2067 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>BC029674</u> , <u>AAH29674</u>
RefSeq Size:	3218 bp
RefSeq ORF:	2066 bp
Locus ID:	14254
Cytogenetics:	5 87.01 cM
Gene Summary:	<p>Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. May play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells. Can promote endothelial cell proliferation, survival and angiogenesis in adulthood. Its function in promoting cell proliferation seems to be cell-type specific. Promotes PGF-mediated proliferation of endothelial cells, and proliferation of some types of cancer cells, but does not promote proliferation of normal fibroblasts. Has very high affinity for VEGFA and relatively low protein kinase activity; may function as a negative regulator of VEGFA signaling by limiting the amount of free VEGFA and preventing its binding to KDR. Modulates KDR signaling by forming heterodimers with KDR. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of protein kinase C. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leading to the activation of phosphatidylinositol kinase and the downstream signaling pathway. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Phosphorylates SRC, YES1 and PLCG, and may also phosphorylate CBL. Promotes phosphorylation of AKT1 and PTK2/FAK1 (By similarity). [UniProtKB/Swiss-Prot Function]</p>