

Product datasheet for **RR217404**

Flt3 (NM_001100822) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flt3 (NM_001100822) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flt3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR217404 representing NM_001100822
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGGCGTTGGCGCGCGCAGCGACCGGCTGCCGCTGCTTGTGTTTTGTCAGTAATGATTCTCGAGA
 CCGTTACAAACCAAGATCTGCCTGTGATCAAGTGTGTTTTAATCATTGATCAAGAACAATGGCTCGCGCGC
 GGGAAAGTCATCGTCGCACGTCATGTTCCAGAATCCCCAGAGGACCTCCGGTGTGCCCCGAAGCATCGG
 AGTGAAGGGTGGTCTATGAAGCTGCTACTGTGGAGGTGGCCAGTCTGCGTCTTCACATTGCAAGTAC
 AGCTCACCACCCCGGGGATGTTTCTTGCCTCTGGGTCTTTAAGCACAGCTCGCTGGGCTGCCAGCCACA
 CTTTGATTACAGAACAGAAGAATTGTTTCCATGACCATCTTGAACGTTACAGAGACCCAGGCAGGAGAA
 TACCTACTCCATATTCAGAGTGAAGCCACCAACCACCGTGTGTTACAGTGAATGTAAGAGATACAC
 AGCTGTACGTGCTAAGAAGACCTTCTTTCAGAAAGATGGAGAACCAGGACGCCCTGCTCTGCGTCTCTGA
 GGGTGTCCAGAGCCACCGTGGAGTGGTGGTCTGCAGTTCACAGGGACAGCTGTAGAGAAGAAGGC
 TCTGCCGTTGTCAAAAAGGAGGAAAAGGTAATTCACGAGCTATTTGAAACAGACATCAGATGCTGTGCGA
 GAAATGCACTGGGCCGAGAATGCACCAAGCTGTTACCATAGATCTAAACCAGGCTCCTCAGAGCACACT
 GCCCCAGTTATTTCTGAAAGTGGGGAGCCCTGTGGATAAGGTGCAAGGCCATCCATGTGAACCATGGA
 TTCGGGCTCACCTGGGAGCTGGGAAACAAAGTCTGGAGGAGGCGAGCTACTTTGAGATGAGTTCCTACT
 CCACCAACAGATCCATGATCCGGATTCTTGGCTTTTGTGCTCTGTGGGAAGGAACAACACCCGGATA
 TTACACCTGTTCTTCTCAAAGCATCCCAGCCAGACAGCGTTGGTGACCATCCTAGAAAAAGGTTTCATA
 AATGCTACCAGCTCACAAGAAGAGTATGAAATGACCCGTATGAAAAGTCTGCTTCTCGGTGAGTTTA
 AAGCGTACCCACAAATCCGATGCAAGTGGACCTTCTCTCAAACATCGTTTCTTGTGAACAAAGTGGCT
 GGAGGATGGGTACAGCATTTCTAAATTTTGCATCATAAGAACAACCCAGGAGAATACATATTTCCATGGA
 GAAAAATGATGACGCCAGTTCACCAAAATGTTCACTGAATATAAGAAGGAAACCTCAAGTGTAGCAA
 ATGCCCTCAGCCAGCCAGGCATCCTGTTTCTGATGGCTACCCGTTACCCAACCTGGACCTGGAAGAAGTG
 TTCGGACAAGTACCCAACCTGCACGGAGGAAATCCCAGAAGGAGTTTGAATAAAAAGGCTAACAGAAAA
 GTGTTTGGACAGTGGGTGTCGAGCAGTACCCTGAATATGAGTGAGGCCGGGAGAGGGTTTCTGGTCAAA
 TCTGTGCATACAATTCTATGGGCAGTCTTGCAGAACCATCCTTTTAAACTCACCAGGCCCTTCTCTTT
 CATCCAAGACAACATCTCCTTCTATGCAACCATCGGGCTTTCGCCGCTTTCATTGTCGCTCCTACTGTG
 CTGATCTGTACAAAATACAAAAGCAATTTAGGTACGAAAGCCAGCTGCAGATGATCCAAGTGACCGGCC
 CCTGGATAACGAGTACTTCTACATTGACTTCAGGGACTACGAATATGACCTCAAGTGGGAGTTTCCAAG
 GGAAAACCTTAGAGTTTGGGAAGGTCTGGGGTCCGGCGCTTTTGGGAGAGTGATGAATGCCACGGCTAC
 GGGATTAGTAAAACAGGAGTCTCAATTCAGGTGGCGGTGAAGATGCTAAAAGAGAAAAGTGCAGATGTG
 AAAGAGAGGCGCTCATGGCTGAGCTCAAATGATGACCCACCTGGGGCACCATGACAACATCGTGAACCT
 GCTGGGGCATGCACACTGTGAGGGCAGTGTACTTGATTTTTGAATATTGTTGCCATGGTGACCTGCTC
 AACTACCTAAGAAGCAAAAAGAGAAAAGTTTACAGGACGTGGACAGAGATTTTTAAGGAACATAATTTCA
 GTTTTTACCCACCTTCCAGTCAATCAAACCTCAGTATGCCGGTTTACGAGAAGTTTCAAGATATACCC
 GCCCGTGGATCAGTCTCAGGGTTCAATGGGAATTCATTCATTCTGAAGTAAATATTGAGTATGAAAA
 CAGAAGAGGCTGGAAGAAGAGGAGGAAGAAGATTTGAACGTGCTGACGTTTGAAGACCTCCTTTGTTTTG
 CGTATCAAGTGGCCAAGGCATGGAGTTCCTGGAGTTCAGTCTGTGTTACAGAGACCTGGCAGCCAG
 GAACGTAAGTCAACCCAGGGAAGGTGGTGAAGATCTGTGACTTTGGACTGGCCGAGACATCCTGAGT
 GACTCCAGCTACGTCGTGAGGGCAACGACCGGCTGCCAGTGAAGTGGATGGCACCTGAGAGCTTGTG
 AAGGGATCTATAAATCAAGAGTACGCTGCTGCTACGGCATCCTTCTCTGGGAGATATTTTATTGGG
 TGTGAACCCTTACCCCGTATTCTGTCGATGCTAACTTCTATAAACTGATTGAGTGGATTTAAATG
 GAGCAGCCGTTCTATGCTACGGAAGAGATATACTTTGTAATGCAATCCTGCTGGGCTTTTACTCAAGGA
 AGCGGCCATCCTTCCCAATCTGACGTATTTTTAGGCTGTGAGCTCGCAGAGGCAAGCAGCGATGTA
 TCAGAACATGGGCGCGATGTCCCACTGGAGCACCCAGCCATCTACAAAACAGGCGGCCTGCCAGCAGA
 GAGGCAGGCTCAGAGCCCATCACACAGGTTTCAAGAGAAGACTCACAGAGAAAAGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217404 representing NM_001100822
 Red=Cloning site Green=Tags(s)

MRALARSDRLPLLVLVSMILETVTNQDLPVIKCVLIIHKNNGSAAKGSSSHVMVPESPEDLRCAPKHR
 SEGVVYEAVTVEVAQSASF TLQVQL TTPGDV SCLWVFKHSSLGCQPHFDLQNRRIVSMTILNVTETQAGE
 YLLHIQSEATNHTVLF TVNVRTQLYVLR RPSFRK MENQDALLCVSEGVPEPTVEVWVCCSSHRDSCREEG
 SAVVKKEEKVLHEL FETDIRCCARNALGRECTKLF TIDL NQAPQSTLPQLFLKVG EPLWIRCKAIHVNHG
 FGLTWELGNKVL EEGSYFEMSSYSTNRS MIRILLAFVSSVGRNNTGYT C SSSKHPSQTALVTILEKGF I
 NATSSQEEYEIDPYEKFCFSVRFKAYPQIRCKWTF SQT SFPCEQSGLEDGYSISKFC DHKNNPGEYIFHG
 ENDDAQFTKMFILNIRRK PQVLANASASQASCFSDGYPLPNWTWKKCSDKSPNCTEEIPEGVWNKKANRK
 VFGQWVSSTLNMSEAGRGLVKCCAYNSMGTSCETILLNSPGPFLFIQDNISFYATIGLCPPFIVVLTV
 LICHKYKKQFRYESQLQMIQVTGPLDNEYFYIDFRDYEYDLKWEFPRENLEFGKVLGSGAFGRVMNATAY
 GISKTGVS IQVAVKMLKEKADRCEREALMAELKMMTHLGHHDNIVNLLGACTLSGPVYLIFEYCCHGDLL
 NYLRSKREKFHRTWTEIFKEHNF SFYPTFQSHSNSSMPGSREVQIYPPVDQVSGFNGNSIHSEGNIEYEN
 QKRLEEEEEEDLNVLTFEDLLCFAYQVAKGMEFLFEKSCVHRDLAARNVLVTHGKVVKICDFGLARDILS
 DSSYVVRGNARLPVKWMAPE SLFEGIYTIKSDVWSYGILLWEIFSLGVNPPYGPV DANFYKLIQSGFKM
 EQPFYATEEIIYFMQSCWAFDSRKRPSF PNLTSFLGCQLAEAEAAAMYQNMGGDVPLEHPAIYQNR PASR
 EAGSEPPSPQVQEKTHRERS

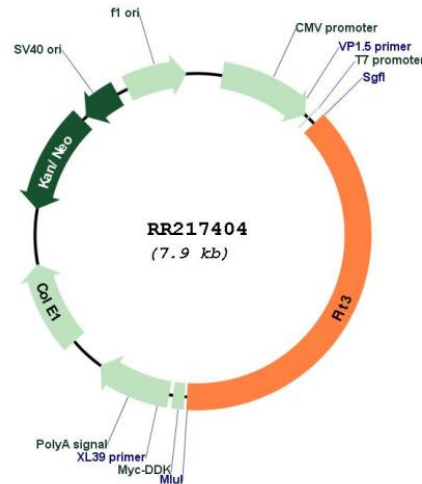
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001100822

ORF Size: 3000 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:

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_001100822.2](#), [NP_001094292.1](#)

RefSeq Size: 3667 bp

RefSeq ORF: 3003 bp

Locus ID: 140635

Cytogenetics: 12p11

MW: 113.6 kDa

Gene Summary: putative tyrosine kinase; quantitative trait loci candidate gene for type II Collagen induced arthritis [RGD, Feb 2006]