

Product datasheet for **RC600029**

FLT4 (NM_002020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLT4 (NM_002020) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	FLT4
Synonyms:	CHTD7; FLT-4; FLT41; LMPH1A; LMPHM1; PCL; VEGFR-3; VEGFR3
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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ORF Nucleotide
Sequence:

>RC600029 representing leader sequence plus the extracellular domain region of
NM_002020

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCTGGTACCGAGGAGATCCGCCCGCCG
CGATCGCC

ATGCAGCGGGGCGCCGCGCTGTGCCTGCGACTGTGGCTCTGCCTGGGACTCCTGGACGGCCTGGTGAAGT
GCTACTCCATGACCCCCCGACCTTGAACATCACGGAGGAGTACACGTCATCGACACCGGTGACAGCCT
GTCCATCTCTGCAGGGGACAGCACCCCTCGAGTGGGCTTGGCCAGGAGCTCAGGAGGCCAGCCACC
GGAGACAAGGACAGCGAGGACACGGGGTGGTGCAGACTGCGAGGGCACAGACGCCAGGCCCTACTGCA
AGGTGTTGCTGCTGCACGAGGTACATGCCAACGACACAGGCAGCTACGTCTGCTACTACAAGTACATCAA
GGCAGCCTCGAGGGCACCACGGCCGCGAGCTCCTACGTGTTCTGAGAGACTTTGAGCAGCCATTATC
AACAGCCTGACACGCTCTTGGTCAACAGGAAGGACGCCATGTGGGTGCCCTGTCTGGTGTCCATCCCCG
GCCTCAATGTACGCTGCGCTCGCAAAGCTCGGTGCTGTGGCCAGACGGGAGGAGGTGGTGTGGGATGA
CCGGCGGGGCATGCTCGTGTCCACGCCACTGCTGCACGATGCCCTGTACCTGCAGTGCAGAGACCCTGG
GGAGACCAGGACTTCCTTTCAACCCCTTCTGTTGTCACATCACAGGCAACGAGCTCTATGACATCCAGC
TGTGGCCAGGAAGTTCGCTGGAGCTGCTGGTAGGGGAGAAGTGGTCTGAACTGCACCGTGTGGGCTGA
GTTAACTCAGGTGTCACCTTTGACTGGGACTACCCAGGGAAGCAGGCAGAGCGGGGTAAGTGGGTGCC
GAGCGAGCTCCCAGCAGACCCACAGAACTCTCCAGCATCCTGACCATCCACAACGTGAGCCAGCAGC
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GCATGAAAATCCCTTTCATCAGCGTCGAGTGGCTCAAAGGACCCATCCTGGAGGCCACGGCAGGAGACG
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CACTGTCCGGGGCCACAGTCCACATGCCCTGGTGTCAAGGAGGTGACAGAGGCCAGCACAGGCACCTA
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CCCCCCAGATACATGAGAAGGAGGCTCCTCCCCAGCATCTACTCGCGTCACAGCCGCCAGGCCCTCA
CCTGCACGGCCTACGGGGTGCCTCTCAGCATCCAGTGGCACTGGCGGCCCTGGACACCCTGCAA
GATGTTTCCAGCGTAGTCTCCGGCGGGCAGCAGCAAGACCTCATGCCACAGTCCCGTACTGGAGG
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CAACAAGGTGGGCCAGGATGAGCGGCTCATCTACTTCTATGTGACCACCATCCCCGACGGCTTACCATC
GAATCAAAGCCATCCGAGGAGCTACTAGAGGGCCAGCCGGTGTCTCCTGAGCTGCCAAGCCGACAGCTACA
AGTACGAGCATCTGCGCTGGTACCGCTCAACCTGTCCACGCTGCACGATGCGCACGGGAACCCGCTTCT
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GCGCGCCACGCCAGCTCAGCCTGAGTATCCCCCGCGTCGCGCCGAGCAGGAGGCCACTATGTGTGCG
AAGTGAAGACCGGGCAGCCATGACAAGCACTGCCACAAGAAGTACCTGTGCGTGCAGGCCCTGGAAGC
CCCTCGGCTCACGCAGAACTTGACCGACCTCCTGGTGAACGTGAGCGACTCGTGGAGATGCAGTGTG
GTGGCCGAGCGCACGCGCCAGCATCGTGTGGTACAAAGACGAGAGGCTGCTGGAGGAAAAGTCTGGAG
TCGACTTGGCGGACTCCAACAGAAGCTGAGCATCCAGCGGTGCGCGAGGAGGATGCGGGACGCTATCT
GTGCAGCGTGTGCAACGCCAAGGGCTGCGTCAACTCCTCCGCCAGCGTGGCCGTGGAAGGCTCCGAGGAT
AAGGGCAGCATGGAG

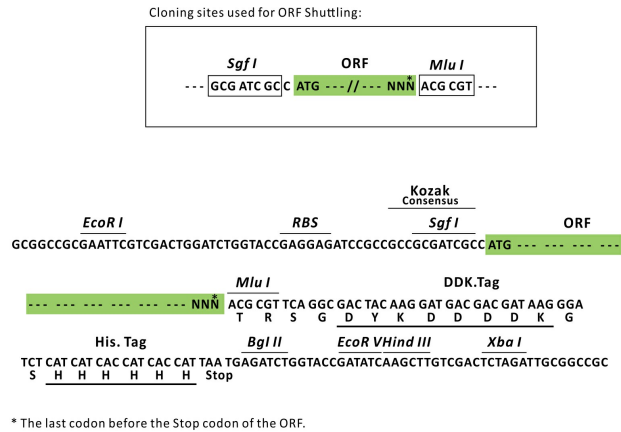
ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence: >RC600029 representing signal peptide plus the extracellular domain region of NM_002020
Red=Cloning sites Green= DDK and 6XHIS Tags

MQRGAALCLRLWLCLGLLDGLVSGYSMTPTLNITEESHVIDTGDSLISCRGQHLEWAWPGAQEAPAT
GDKDSEDTGVVRDCEGTDARPYCKVLLLEHVHANDTGSYVCYYKYIKARIEGTTAASSYVVRDFEQPFI
NKPDTLLVNRKAMWVPCLVSIPLNVTLSQSSVLWPDGQEVVWDDRRGMLVSTPLLHDALYLQCETTW
GDQDFLSNPFLVHITGNELYDIQLLPRKSLELLVGEKLVLNCTVWAEFNSGVTFDWDYPGKQAERGKWVP
ERRSQQTHTESSILTIHNVSQHDLGSYVCKANNGIQRFRESTEIVHENPFISVEWLKGPILEATAGDE
LVKLPVKLAAYPPPEFQWYKDGKALSGRHSPHALVLKEVTEASTGTYTLALWNSAAGLRRNISLELVVNV
PPQIHEKEASSPSIYSRHSRQAL TCTAYGVPLPLSIQWHWRPWPCKMFAQRSLRRRQQDLMPQCRDWR
AVTTQDAVNPIESLDTWTEFVEGKNKTVSKLVIQANVVSAMYKCVVSNKVGQDERLIYFYVTTIPDGFTI
ESKPSEELLEGGPVLLSCQADSYKYEHLRWYRLNLSTLHDAHGNPLLLDCKNVHLFATPLAASLEEVAPG
ARHATLSLSIPRVAPEHEGHYVCEVQDRRSHDKHCHKYLSVQALEAPRLTQNLTDLLVNVSDSLEMQCL
VAGAHAPSIVWYKDERLLEEKSGVDLADSNQKLSIQRVREEDAGRYLCSVCNAKGCYNSSASVAVEGSED
KGSME

TRSGTRSGDYKDDDDKGSHHHHHH

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_002020

ORF Size: 2325 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 extra cellular domain of the protein 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:	<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:	NM_002020.4 , NP_002011.2
RefSeq Size:	4534 bp
RefSeq ORF:	3897 bp
Locus ID:	2324
UniProt ID:	P35916
Cytogenetics:	5q35.3
Domains:	pkinase, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Focal adhesion
MW:	87 kDa
Gene Summary:	This gene encodes a tyrosine kinase receptor for vascular endothelial growth factors C and D. The protein is thought to be involved in lymphangiogenesis and maintenance of the lymphatic endothelium. Mutations in this gene cause hereditary lymphedema type IA. [provided by RefSeq, Jul 2008]