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Product datasheet for RC600028

FLT4 (NM_182925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLT4 (NM_182925) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	FLT4
Synonyms:	CHTD7; FLT-4; FLT41; LMPH1A; LMPHM1; PCL; VEGFR-3; VEGFR3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RC600028 representing leader sequence plus the extracellular domain region of NM_182925
Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGCGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGCAGCGGGGCGCCGCGCTGTGCCTGCGACTGTGGCTCTGCCTGGGACTCCTGGACGGCCTGGTGAGTG
GCTACTCCATGACCCCCCCGACCTTGAACATCACGGAGGAGTCACACGTCATCGACACCGGTGACAGCCT
GTCCATCTCCTGCAGGGGACAGCACCCCCTCGAGTGGGCTTGGCCAGGAGCTCAGGAGGCGCCAGCCACC
GGAGACAAGGACAGCGAGGACACGGGGGTGGTGCGAGACTGCGAGGGCACAGACGCCAGGCCCTACTGCA
AGGTGTTGCTGCTGCACGAGGTACATGCCAACGACACAGGCAGCTACGTCTGCTACTACAAGTACATCAA
GGCACGCATCGAGGGCACCACGGCCGCCAGCTCCTACGTGTTCGTGAGAGACTTTGAGCAGCCATTCATC
AACAAGCCTGACACGCTCTTGGTCAACAGGAAGGACGCCATGTGGGTGCCCTGTCTGGTGTCCATCCCCG
GCCTCAATGTCACGCTGCGCTCGCAAAGCTCGGTGCTGTGGCCAGACGGGCAGGAGGTGGTGTGGGATGA
CCGGCGGGGCATGCTCGTGTCCACGCCACTGCTGCACGATGCCCTGTACCTGCAGTGCGAGACCACCTGG
GGAGACCAGGACTTCCTTTCCAACCCCTTCCTGGTGCACATCACAGGCAACGAGCTCTATGACATCCAGC
TGTTGCCCAGGAAGTCGCTGGAGCTGCTGGTAGGGGAGAAGCTGGTCCTGAACTGCACCGTGTGGGCTGA
GTTTAACTCAGGTGTCACCTTTGACTGGGACTACCCAGGGAAGCAGGCAGAGCGGGGTAAGTGGGTGCCC
GAGCGACGCTCCCAGCAGACCCACACAGAACTCTCCAGCATCCTGACCATCCACAACGTCAGCCAGCACG
ACCTGGGCTCGTATGTGTGCAAGGCCAACAACGGCATCCAGCGATTTCGGGAGAGCACCGAGGTCATTGT
GCATGAAAATCCCTTCATCAGCGTCGAGTGGCTCAAAGGACCCATCCTGGAGGCCACGGCAGGAGACGAG
CTGGTGAAGCTGCCCGTGAAGCTGGCAGCGTACCCCCCGCCCGAGTTCCAGTGGTACAAGGATGGAAAGG
CACTGTCCGGGCGCCACAGTCCACATGCCCTGGTGCTCAAGGAGGTGACAGAGGCCAGCACAGGCACCTA
CACCCTCGCCCTGTGGAACTCCGCTGCTGGCCTGAGGCGCAACATCAGCCTGGAGCTGGTGGTGAATGTG
CCCCCCCAGATACATGAGAAGGAGGCCTCCTCCCCCAGCATCTACTCGCGTCACAGCCGCCAGGCCCTCA
CCTGCACGGCCTACGGGGTGCCCCTGCCTCTCAGCATCCAGTGGCACTGGCGGCCCTGGACACCCTGCAA
GATGTTTGCCCAGCGTAGTCTCCGGCGGCGGCAGCAGCAAGACCTCATGCCACAGTGCCGTGACTGGAGG
GCGGTGACCACGCAGGATGCCGTGAACCCCATCGAGAGCCTGGACACCTGGACCGAGTTTGTGGAGGGAA
AGAATAAGACTGTGAGCAAGCTGGTGATCCAGAATGCCAACGTGTCTGCCATGTACAAGTGTGTGGTCTC
CAACAAGGTGGGCCAGGATGAGCGGCTCATCTACTTCTATGTGACCACCATCCCCGACGGCTTCACCATC
GAATCCAAGCCATCCGAGGAGCTACTAGAGGGCCAGCCGGTGCTCCTGAGCTGCCAAGCCGACAGCTACA
AGTACGAGCATCTGCGCTGGTACCGCCTCAACCTGTCCACGCTGCACGATGCGCACGGGAACCCGCTTCT
GCTCGACTGCAAGAACGTGCATCTGTTCGCCACCCCTCTGGCCGCCAGCCTGGAGGAGGTGGCACCTGGG
GCGCGCCACGCCACGCTCAGCCTGAGTATCCCCCGCGTCGCGCCCGAGCACGAGGGCCACTATGTGTGCG
AAGTGCAAGACCGGCGCAGCCATGACAAGCACTGCCACAAGAAGTACCTGTCGGTGCAGGCCCTGGAAGC
CCCTCGGCTCACGCAGAACTTGACCGACCTCCTGGTGAACGTGAGCGACTCGCTGGAGATGCAGTGCTTG
GTGGCCGGAGCGCACGCGCCCAGCATCGTGTGGTACAAAGACGAGAGGCTGCTGGAGGAAAAGTCTGGAG
TCGACTTGGCGGACTCCAACCAGAAGCTGAGCATCCAGCGCGTGCGCGAGGAGGATGCGGGACGCTATCT
GTGCAGCGTGTGCAACGCCAAGGGCTGCGTCAACTCCTCCGCCAGCGTGGCCGTGGAAGGCTCCGAGGAT
AAGGGCAGCATGGAG

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC
TGGTACCGATATCAAGCTTGTCGACTCTAGA

Protein Sequence:

>RC600028 representing signal peptide plus the extracellular domain region of NM_182925
Red=Cloning sites Green= DDK and 6XHIS Tags

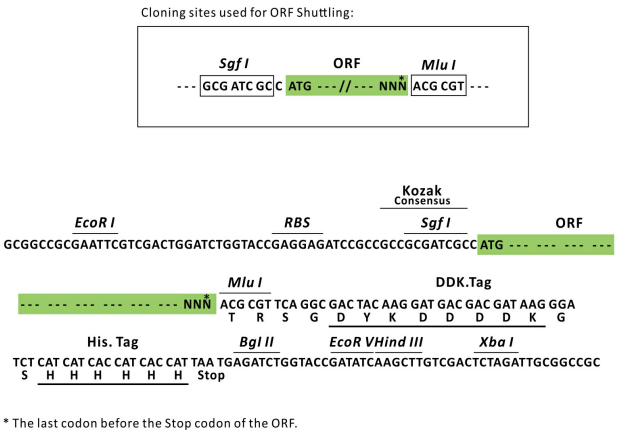
MQRGAALCLRLWLCLGLLDGLVSGYSMTPPTLNITEESHVIDTGDSLSISCRGQHPLEWAWPGAQEAPAT
GDKDSEDTGVVRDCEGTDARPYCKVLLLHEVHANDTGSYVCYYKYIKARIEGTTAASSYVFVRDFEQPFI
NKPDTLLVNRKDAMWVPCLVSIPGLNVTLRSQSSVLWPDGQEVVWDDRRGMLVSTPLLHDALYLQCETTW
GDQDFLSNPFLVHITGNELYDIQLLPRKSLELLVGEKLVLNCTVWAEFNSGVTFDWDYPGKQAERGKWVP
ERRSQQTHTELSSILTIHNVSQHDLGSYVCKANNGIQRFRESTEVIVHENPFISVEWLKGPILEATAGDE
LVKLPVKLAAYPPPEFQWYKDGKALSGRHSPHALVLKEVTEASTGTYTLALWNSAAGLRRNISLELVVNV
PPQIHEKEASSPSIYSRHSRQALTCTAYGVPLPLSIQWHWRPWTPCKMFAQRSLRRRQQQDLMPQCRDWR
AVTTQDAVNPIESLDTWTEFVEGKNKTVSKLVIQNANVSAMYKCVVSNKVGQDERLIYFYVTTIPDGFTI
ESKPSEELLEGQPVLLSCQADSYKYEHLRWYRLNLSTLHDAHGNPLLLDCKNVHLFATPLAASLEEVAPG
ARHATLSLSIPRVAPEHEGHYVCEVQDRRSHDKHCHKKYLSVQALEAPRLTQNLTDLLVNVSDSLEMQCL
VAGAHAPSIVWYKDERLLEEKSGVDLADSNQKLSIQRVREEDAGRYLCSVCNAKGCVNSSASVAVEGSED
KGSME

TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms: https://cdn.origene.com/chromatograms/mk8117_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_182925
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:	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_182925.4, NP_891555.2
RefSeq Size:	5857 bp
RefSeq ORF:	4092 bp
Locus ID:	2324
UniProt ID:	P35916
Cytogenetics:	5q35.3
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]