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Product datasheet for SC124114

FLT4 (NM_182925) Human Untagged Clone

Product data:

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

Fully Sequenced ORF:

>OriGene ORF sequence for NM_182925 edited
GTCGGACCCACGCGCAGCGGCCGGAGATGCAGCGGGGCGCCGCGCTGTGCCTGCGACTGT
GGCTCTGCCTGGGACTCCTGGACGGCCTGGTGAGTGGCTACTCCATGACCCCCCCGACCT
TGAACATCACGGAGGAGTCACACGTCATCGACACCGGTGACAGCCTGTCCATCTCCTGCA
GGGGACAGCACCCCCTCGAGTGGGCTTGGCCAGGAGCTCAGGAGGCGCCAGCCACCGGAG
ACAAGGACAGCGAGGACACGGGGGTGGTGCGAGACTGCGAGGGCACAGACGCCAGGCCCT
ACTGCAAGGTGTTGCTGCTGCACGAGGTACATGCCAACGACACAGGCAGCTACGTCTGCT
ACTACAAGTACATCAAGGCACGCATCGAGGGCACCACGGCCGCCAGCTCCTACGTGTTCG
TGAGAGACTTTGAGCAGCCATTCATCAACAAGCCTGACACGCTCTTGGTCAACAGGAAGG
ACGCCATGTGGGTGCCCTGTCTGGTGTCCATCCCCGGCCTCAATGTCACGCTGCGCTCGC
AAAGCTCGGTGCTGTGGCCAGACGGGCAGGAGGTGGTGTGGGATGACCGGCGGGGCATGC
TCGTGTCCACGCCACTGCTGCACGATGCCCTGTACCTGCAGTGCGAGACCACCTGGGGAG
ACCAGGACTTCCTTTCCAACCCCTTCCTGGTGCACATCACAGGCAACGAGCTCTATGACA
TCCAGCTGTTGCCCAGGAAGTCGCTGGAGCTGCTGGTAGGGGAGAAGCTGGTCCTGAACT
GCACCGTGTGGGCTGAGTTTAACTCAGGTGTCACCTTTGACTGGGACTACCCAGGGAAGC
AGGCAGAGCGGGGTAAGTGGGTGCCCGAGCGACGCTCCCAGCAGACCCACACAGAACTCT
CCAGCATCCTGACCATCCACAACGTCAGCCAGCACGACCTGGGCTCGTATGTGTGCAAGG
CCAACAACGGCATCCAGCGATTTCGGGAGAGCACCGAGGTCATTGTGCATGAAAATCCCT
TCATCAGCGTCGAGTGGCTCAAAGGACCCATCCTGGAGGCCACGGCAGGAGACGAGCTGG
TGAAGCTGCCCGTGAAGCTGGCAGCGTACCCCCCGCCCGAGTTCCAGTGGTACAAGGATG
GAAAGGCACTGTCCGGGCGCCACAGTCCACATGCCCTGGTGCTCAAGGAGGTGACAGAGG
CCAGCACAGGCACCTACACCCTCGCCCTGTGGAACTCCGCTGCTGGCCTGAGGCGCAACA
TCAGCCTGGAGCTGGTGGTGAATGTGCCCCCCCAGATACATGAGAAGGAGGCCTCCTCCC
CCAGCATCTACTCGCGTCACAGCCGCCAGGCCCTCACCTGCACGGCCTACGGGGTGCCCC
TGCCTCTCAGCATCCAGTGGCACTGGCGGCCCTGGACACCCTGCAAGATGTTTGCCCAGC
GTAGTCTCCGGCGGCGGCAGCAGCAAGACCTCATGCCACAGTGCCGTGACTGGAGGGCGG
TGACCACGCAGGATGCCGTGAACCCCATCGAGAGCCTGGACACCTGGACCGAGTTTGTGG

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AGGGAAAGAATAAGACTGTGAGCAAGCTGGTGATCCAGAATGCCAACGTGTCTGCCATGT
ACAAGTGTGTGGTCTCCAACAAGGTGGGCCAGGATGAGCGGCTCATCTACTTCTATGTGA
CCACCATCCCCGACGGCTTCACCATCGAATCCAAGCCATCCGAGGAGCTACTAGAGGGCC
AGCCGGTGCTCCTGAGCTGCCAAGCCGACAGCTACAAGTACGAGCATCTGCGCTGGTACC
GCCTCAACCTGTCCACGCTGCACGATGCGCACGGGAACCCGCTTCTGCTCGACTGCAAGA
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TCCTCGGGGCGTGCACCAAGCCGCAGGGCCCCCTCATGGTGATCGTGGAGTTCTGCAAGT
ACGGCAACCTCTCCAACTTCCTGCGCGCCAAGCGGGACGCCTTCAGCCCCTGCGCGGAGA
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GGTCCGGAGACCCCAAGGCGAGACCTGCATTCTCGGAGCTGGTGGAGATCCTGGGGGACC
TGCTCCAGGGCAGGGGCCTGCAAGAGGAAGAGGAGGTCTGCATGGCCCCGCGCAGCTCTC
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GACAAGAAAGCGGCTTCAGCTGTAAAGGACCTGGCCAGAATGTGGCTGTGACCAGGGCAC
ACCCTGACTCCCAAGGGAGGCGGCGGCGGCCTGAGCGGGGGGCCCGAGGAGGCCAGGTGT
TTTACAACAGCGAGTATGGGGAGCTGTCGGAGCCAAGCGAGGAGGACCACTGCTCCCCGT
CTGCCCGCGTGACTTTCTTCACAGACAACAGCTACTAAGCAGCATCGGACAAGACCCCCA
GCACTTGGGGGTTCAGGCCCGGCAGGGCGGGCAGAGGGCTGGAGGCCCAGGCTGGGAACT
CATCTGGTTGAACTCTGGTGGCACAGGAGTGTCCTCTTCCCTCTCTGCAGACTTCCCAGC
TAGGAAGAGCAGGACTCCAGGCCCAAGGCTCCCGGAATTCCGTCACCACGACTGGCCAGG
GCCACGCTCCAGCTGCCCCGGCCCCTCCCCCTGAGATTCAGATGTCATTTAGTTCAGCAT
CCGCAGGTGCTGGTCCCGGGGCCAGCACTTCCATGGGAATGTCTCTTTGGCGACCTCCTT
TCATCACACTGGGTGGTGGCCTGGTCCCTGTTTTCCCACGAGGAATCTGTGGGTCTGGGA
GTCACACAGTGTTGGAGGTTAAGGCATACGAGAGCAGAGGTCTCCCAAACGCCCTTTCCT
CCTCAGGCACACAGCTACTCTCCCCACGAGGGCTGGCTGGCCTCACCCACCCCTGCACAG
TTGAAGGGAGGGGCTGTGTTTCCATCTCAAAGAAGGCATTTGCAGGGTCCTCTTCTGGGC

CTGACCAAACAGCCAACTAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_182925 unedited
CAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTCAGGAAACAGC
TATGACCGTGGCCGCAATCTAGACTCAGTACAGCTGTCCCTGGGCGCCTTCCAGGCTGAA
TTCGGAAAGCAAATTCTTCTCAGCAGCTCTAACAGTCTGTGAAGTTCTGTTGAAAAAGAC
TTGCAGGATGGCTCTCAACACCCAGGCGCAGGTGTGCGGGCTGCCTCTGTGTTGCCAGCG
TATAATACTGTCATACTGGTGGCCACCCCAGGGGCTAGTTGGCTGTTTGGTCAGGCCCAG
AAGAGGACCCTGCAAATGCCTTCTTTGAGATGGAAACACAGCCCCTCCCTTCAACTGTGC
AGGGGTGGGTGAGGCCAGCCAGCCCTCGTGGGGAGAGTAGCTGTGTGCCTGAGGAGGAAA
GGGCGTTTGGGAGACCTCTGCTCTCGTATGCCTTAACCTCCAACACTGTGTGACTCCCAG
ACCCACAGATTCCTCGTGGGAAAACAGGGACCAGGCCACCACCCAGTGTGATGAAAGGAG
GTCGCCAAAGAGACATTCCCATGGAAGTGCTGGCCCCGGGACCAGCACCTGCGGATGCTG
AACTAAATGACATCTGAATCTCAGGNGGAGGGGCCGGNGCAGCTGGAGCGTGGCCCTGGC
CAGTCGTGGTGACGGAATTCCGGGAGNCCTGNGCCTGGAGTCCTGCTCTTCCTAGCTGGG
GAGTCTGC

Restriction Sites: Please inquire

ACCN: NM_182925

Insert Size: 5000 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_182925.1, NP_891555.1

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
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] Transcript Variant: This variant (1) encodes the longest isoform (1).