

## Product datasheet for SC118894

### FLT4 (NM\_002020) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FLT4 (NM\_002020) 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-XL6  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002020 edited  
 ATGCAGCGGGGCGCCGCGCTGTGCCTGCGACTGTGGCTCTGCCTGGGACTCCTGGACGGC  
 CTGGTGAGTGGCTACTCCATGACCCCCCGACCTTGAACATCACGGAGGAGTCACACGTC  
 ATCGACACCGGTGACAGCCTGTCCATCTCTGACAGGGGACAGCACCCCTCGAGTGGGCT  
 TGGCCAGGAGCTCAGGAGGCGCCAGCCACCGGAGACAAGGACAGCGAGGACACGGGGTG  
 GTGCGAGACTGCGAGGGCACAGACGCCAGGCCCTACTGCAAGGTGTTGCTGCTGCACGAG  
 GTACATGCCAACGACACAGGCAGCTACGTCTGCTACTACAAGTACATCAAGGCACGCATC  
 GAGGGCACACGGCCGCGCAGCTCCTACGTGTTGCTGAGAGACTTTGAGCAGCCATTCATC  
 AACAAAGCCTGACACGCTCTTGGTCAACAGGAAGGACGCCATGTGGGTGCCCTGTCTGGT  
 TCCATCCCCGGCCTCAATGTCACGCTGCGCTCGCAAAGCTCGGTGCTGTGGCCAGACGGG  
 CAGGAGGTGGTGTGGATGACCGCGGGGCATGCTCGTGTCCACGCCACTGCTGCACGAT  
 GCCTGTACCTGCAGTGCAGACACCTGGGGAGACCAGGACTTCTTTCCAACCCCTTC  
 CTGGTGCACATCACAGGCAACGAGCTCTATGACATCCAGCTGTTGCCAGGAAGTCGCTG  
 GAGCTGCTGGTAGGGGAGAAGCTGGTCCTGAACTGCACCGTGTGGGCTGAGTTTAACTCA  
 GGTGTCACCTTTGACTGGGACTACCCAGGGAAGCAGGCAGAGCGGGGTAAGTGGGTGCC  
 GAGCGACGCTCCCAGCAGACCCACAGAACTCTCCAGCATCCTGACCATCCACAACGTC  
 AGCCAGCAGACCTGGGCTCGTATGTGTGCAAGGCCAACACGGCATCCAGCGATTTTCGG  
 GAGAGACCCGAGGTCATTGTGCATGAAAATCCCTTCATCAGCGTCGAGTGGCTCAAAGGA  
 CCCATCCTGGAGGCCACGGCAGGAGACGAGCTGGTGAAGCTGCCGTGAAGCTGGCAGCG  
 TACCCCCGCCCCGAGTTCAGTGGTACAAGGATGGAAAGGCACTGTCCGGGCGCCACAGT  
 CCACATGCCCTGGTGTCAAGGAGGTGACAGAGGCCAGCACAGGCACCTACACCCCTCGCC  
 CTGTGGAACCTCCGCTGCTGGCCTGAGGCACAACATCAGCCTGGAGCTGGTGGTGAATGTG  
 CCCCCCAGATACATGAGAAGGAGGCCTCCTCCCCAGCATCTACTCGCGTCACAGCCGC  
 CAGGCCCTCACCTGCACGGCCTACGGGGTGCCCTGCCTCTCAGCATCCAGTGGCACTGG  
 CGGCCCTGGACACCCTGCAAGATGTTTGCCAGCGTAGTCTCCGGCGGCGGCAGCAGCAA  
 GACCTCATGCCACAGTGGCGTACTGGAGGGCGGTGACCACGCAGGATGCCGTGAACCCC  
 ATCGAGAGCCTGGACACCTGGACCGAGTTTGTGGAGGGAAAGAATAAGACTGTGAGCAAG



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CTGGTGATCCAGAATGCCAACGTGTCTGCCATGTACAAGTGTGTGGTCTCCAACAAGGTG  
GGCCAGGATGAGCGGCTCATCTACTTCTATGTGACCACCATCCCCGACGGCTTACCATC  
GAATCCAAGCCATCCGAGGAGCTACTAGAGGGCCAGCCGGTGTCTCCTGAGCTGCCAAGCC  
GACAGCTACAAGTACGAGCATCTGCGTGGTACCGCTCAACCTGTCCACGCTGCACGAT  
GCGCACGGGAACCCGCTTCTGCTCGACTGCAAGAACGTGCATCTGTTCCGCCACCCCTCTG  
GCCCGCTGCGCGCCGAGCACGAGGGCCACTATGTGTGCGAAGTGCAAGACCGGCGCAGC  
CATGACAAGCACTGCCACAAGAAGTACCTGTGCGTGCAGGCCCTGGAAGCCCTCGGCTC  
ACGCAGAACTTGACCGACCTCCTGGTGAACGTGAGCGACTCGCTGGAGATGCAAGTCTTG  
GTGGCCGGAGCGCACGCGCCAGCATCGTGTGGTACAAAGACGAGAGGCTGCTGGAGGAA  
AAGTCTGGAGTCGACTTGGCGGACTCCAACCAGAAGCTGAGCATCCAGCGCGTGCAGGAG  
GAGGATGCGGGACGCTATCTGTGACGCTGTGCAACGCCAAGGGCTGCGTCAACTCCTCC  
GCCAGCGTGGCCGTGGAAGGCTCCGAGGATAAGGGCAGCATGGAGATCGTGATCCTTGTC  
GGTACCGCGTCACTCGTGTCTTCTTCTGGGTCTCCTCCTCCTCATCTTCTGTAACATG  
AGGAGGCCGCGCCACGCAGACATCAAGACGGGCTACCTGTCCATCATCATGGACCCGGG  
GAGGTGCCTCTGGAGGAGCAATGCGAATACCTGTCTACGATGCCAGCCAGTGGGAATTC  
CCCCGAGAGCGGCTGCACCTGGGAGAGTGTCTCGGCTACGGCGCCTTCGGGAAGGTGGT  
GAAGCCTCCGCTTTCGGCATCCACAAGGGCAGCAGCTGTGACACCGTGGCCGTGAAAATG  
CTGAAAGAGGGCGCCACGGCCAGCGAGCACCGCGCGTGTGTCGGAGCTCAAGATCCTC  
ATTCACATCGGCAACCACCTCAACGTGGTCAACCTCCTCGGGCGTGCACCAAGCCGAG  
GGCCCCCTCATGGTGATCGTGGAGTTCTGCAAGTACGGCAACCTCCTCAACTTCTGCGC  
GCCAAGCGGGACGCTTACGCCCTGCGCGGAGAAGTCTCCGAGCAGCGCGGACGCTTC  
CGCGCCATGGTGGAGCTCGCCAGGCTGGATCGGAGGCGGCGGGGAGCAGCGACAGGTC  
CTTTCCGCGGGTTCTCGAAGACCGAGGGCGGAGCGAGGCGGGCTTCTCCAGACCAAGAA  
GCTGAGGACCTGTGGCTGAGCCGCTGACCATGGAAGATCTTGTCTGCTACAGTTCAG  
GTGGCCAGAGGGATGGAGTTCCTGGCTTCCGAAAGTGCATCCACAGAGACCTGGCTGCT  
CGGAACATTCTGCTGTCGAAAGCGACGTGGTGAAGATCTGTGACTTTGGCCTTGCCCGG  
GACATCTACAAAGACCCTGACTACGTCCGCAAGGGCAGTGCCCGCTGCCCTGAAGTGG  
ATGGCCCTGAAAGCATCTTCGACAAGGTGTACACCACGCAGAGTGACGTGTGGTCTTT  
GGGGTGTCTCTGGGAGATCTTCTCTCTGGGGCCTCCCGTACCTGGGGTGCAGATC  
AATGAGGAGTTCTGCCAGCGGCTGAGAGACGGCACAAGGATGAGGGCCCCGGAGCTGGCC  
ACTCCCGCATACGCCGATCATGCTGAACTGCTGGTCCGGAGACCCCAAGGCGAGACCT  
GCATTCTCGGAGCTGGTGGAGATCCTGGGGACCTGCTCCAGGGCAGGGGCTGCAAGAG  
GAAGAGGAGGTCTGCATGGCCCCGCGCAGCTCTCAGAGCTCAGAAGAGGGCAGCTTCTCG  
CAGGTGTCCACCATGGCCCTACACATCGCCAGGCTGACGCTGAGGACAGCCCGCAAGC  
CTGCAGCGCCACAGCCTGGCCGCGAGGTATTACAACTGGGTGTCTTTCCCGGTGCCTG  
GCCAGAGGGGCTGAGACCCGTGGTTCTCCAGGATGAAGACATTTGAGGAATTCCTCATG  
ACCCCAACGACCTACAAAGGCTCTGTGGACAACCAGACAGACAGTGGGATGGTGTGGCC  
TCGGAGGAGTTTGAGCAGATAGAGAGCAGGCATAGACAAGAAAGCGGCTTCAGGTAG

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002020 unedited  
 NNTTTTTTCCCGCCGTTGGCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATA  
 AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC  
 GCGAATTCGGCACGAGGGTCCGACCCACGCGCAGCGGCCGGAGATGCAGCGGGGCCCGC  
 GCTGTGCCTGCGACTGTGGCTCTGCCTGGGACTCCTGGACGGCCTGGTGAAGTGGCTACTC  
 CATGACCCCCCGACCTTGAACATCACGGAGGAGTCACACGTCATCGACACCGGTGACAG  
 CCTGTCCATCTCCTGCAGGGGACAGCACCCCTCGAGTGGGCTTGCCAGGAGCTCAGGA  
 GCGGCCACCCAGGAGACAAGGACAGCGAGGACACGGNGGGTGGTGCGAGACTGCGAGG  
 GCACAGACGCCAGGCCCTACTGCAAGGTGTTGCTGCTGCACGAGGTACATGCCAACGACA  
 CAGGCAGCTACGTCTGCTACTACAAGTACATCAAGGCACGCATCGAGGGCACCACGGCCG  
 CCAGCTCTACGTGTTCTGTGAGAGACTNTGAGCAGCCATTATCAACAAGCCTGACACGC  
 TCTTGGTCAACAGGAAGGACGCCATGTGGGTGCCCTGTCTTGGTGTCCATCCCCGGCCTC  
 AATGTCACGCTGCGCTCGAAAGCTCGGTGCTGTGGCCAGACGGCAGGAAGGGGGTGTGG  
 GGATGACCGGGCGGGCATGCCTCTGTCCCCCACTGCTGCCCGATGCCCTGTACCTGCCG  
 TGCGAGACCCCTGGGGAGACCCGGACTTCCTTTCCAACCCTTTTCGGTGCCCATCACAG  
 GCAACGAGCTCTATGACATCCAGCTGTTGCCAGGAAGTCGCTGGAGCTGCTGGTAGGGG  
 AGAAGCTGGTCTGAACTGGCCCA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002020 unedited  
 ATAACGAGGTTNGTTGTCCGCCATTTAAGTTCAGTTTTTTTTTTTTTTTTTTAGTATAA  
 ACATGATTAATTAGCTTTAATACTACTCTTTGATGTATTACTCATATTACCAAGGAATA  
 ACTGGCGGGCACAGGGTCAAGTGTGAAGGGACATTGTGAGAAGTGACCTAGAAGGCAAG  
 AGGTGAGCCCTCTGTACGCTGGCATAAGGGCCGTTGATGGCTCTTTGGTCAAGCAGTA  
 ACGCCAGTGTCTGGGAAGGCACCTGTTACTCAGCAGACCATGAAAGGGCGTCTCCCTTTC  
 CTTGGAGGAGTCAGGGAACACTGTCTCCACCAGCTTCTTGTGGGAGGCTGGATATTATC  
 CAGGCCGTCCCGCAGTCATCCGGAGGCCAACCCTCCCTGTGGTGTTCAGTGGTCCACA  
 CTCTTGTCCACTTTCATGCTCCTCTTGTCTCCTGGTTCCTCTTGAAGTTTGTAGTAG  
 ATAGCAGTAGAAGAAATAGCGAAAAGTCTTAAAGTCTTTGATCTTTCTTATAAGTGACAG  
 AAGAAAATGCTGACGTATGCTGCCTTCTCTCTCTGCTTCAGCTACCTGAAGCCGCTTT  
 CTTGTCTATGCCTGCTCTATCTGCTCAAACCTCCGAAGCCAGCACCATCCCCTGT  
 CTGTCTGGTTGTCCACAGAGCCTTTGTAGGTCGTTGGGGTCATGGGGAATTCTCAAATGT  
 CTTTCATCTGGAAGAACCACGGGTCTCAAGCCCTCTGGCCAGGCACCCGGGAAAGGACA  
 CCCAGTTGTAATACCTGGCGGCCAGCTGTGGCGCTGCAAGGCTTGGCGGGCTGTTCTCA  
 ACGTCAACCTGGCGATGTGTAAGGCCATGGTGGACACCTGCCGAAAGCTGCCCTCTTCT  
 GACTCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002020

**Insert Size:**

5000 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_002020.1</a></u> , <u><a href="#">NP_002011.1</a></u>
<b>RefSeq Size:</b>	4450 bp
<b>RefSeq ORF:</b>	3897 bp
<b>Locus ID:</b>	2324
<b>UniProt ID:</b>	<u><a href="#">P35916</a></u>
<b>Cytogenetics:</b>	5q35.3
<b>Domains:</b>	pkinase, TyrKc, S_TKc, ig, IGc2, IG
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Focal adhesion
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate 3' terminal exon compared to variant 1. This results in an isoform (2) with a shorter C-terminus compared to isoform 1.</p>