

Product datasheet for **SC323508**

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:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323508 sequence for NM_002020 edited (data generated by NextGen Sequencing)

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ATGCAGCGGGGCCCGCGCTGTGCCTGCGACTGTGGCTCTGCCTGGGACTCCTGGACGGC
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ACCCCAACGACCTACAAAGGCTCTGTGGACAACCAGACAGACAGTGGGATGGTGTGGCC
TCGGAGGAGTTTGAGCAGATAGAGAGCAGGCATAGACAAGAAAGCGGCTTCAGGTAG

Clone variation with respect to NM_002020.4
2636 a=>w;2637 a=>r;3198 c=>t

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for mutant NM_002020 unedited</p> <pre> ACCGCCGTCTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTG ACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGGTCGGACCCACG CGCAGCGGCCGGAGATGCAGCGGGGCGCCGCGTGTGCTGCGACTGTGGCTCTGCTGGGACTCCTGGA CGGCTGGTGAGTGGCTACTCCATGACCCCCCGACCTTGAACATCACGGAGGAGTCACACGTATCGAC ACCGGTGACAGCCTGTCCATCTCCTGCAGGGACAGCACCCCTCGAGTGGCTTTGGCCAGGAAGCCTC CAGGGAGGGCGGCCAGCCACCCGGAAGACACAAGGACAAGCCGAGGGACACGGGGGTGTGTGTGCCGAG ACTCTGCAGAGGCGCACCCAGACACGCCAGGGCCCTAACTGCAAAGGTGGTTGCTTGCTTGACCCAGAGG TACATGGCAACCCGACCCAGGCGGCTCGTTTCTGCTACACACAGTTTACCTCAAGGGCCCCCATGCAGG GGAAAAAGGGGGGAGGTTTTAAAGTTTTCGTAGAAAACATTTAGACCGCCCTTTTTTCAAAAACCTAAA CCCCCTTTGGTCAAAGGGAAGGGCCCCGTGGGGGGCCCGGTTGGGTTGCCCCCGGCCCCAAAGT TCCCCCTCCCCCAAAACCCGGGCTCTTGGCCAAAACCCAAAATGTTTTTAAAAAACCGGGGCA TCCTCCTTTTTCCCCCCCCGTGGCCAAAACCCCTTGTCCGGGGGAAACCCTGGGGGAAAAACAAT TTTTTTTTTACCCTTTTTGGTGCATCACAAGGAGAGAATTTTTTAAACCTCCCTTTTTTCCCAAA AATTCTTGAGTCTCTGTGTAGAGAAAACAGGCTCTCACATCTCGCCGGGCCGACTTATCATCACGTGT ACCCTTAATGCGATACCCAGGAACGAGCGCA </pre>
Kinase Domain Sequence:	<p>>SC323508 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation</p> <pre> ARRACGGCTGCCCTGGGAGAGTGCTCGGCTACGGCGCCTTCGGGAAGGTGGTGAAGCCTCCGCTTTCG GCATCCACAAGGGCAGCAGCTGTGACACCGTGGCCGTGATGATGCTGAAAGAGGGCGCCACGGCCAGCGA GCACCGCGCGCTGATGTCGGAGCTCAAGATCCTCATTACATCGGCAACCCACCTCAACGTGGTCAACCTC CTCGGGCGTGCACCAAGCCGACGGGCCCTCATGGTATCGTG </pre>
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_002020.1 , NP_002011.1
RefSeq Size:	4450 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
Gene Summary:	<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>