

## Product datasheet for **RC402605**

### FLT4 (NM\_002020) Human Mutant ORF Clone

#### Product data:

Product Type:	Mutant ORF Clones
Product Name:	FLT4 (NM_002020) Human Mutant ORF Clone
Mutation Description:	P1114L
Affected Codon#:	1114
Affected NT#:	3341
Nucleotide Mutation:	FLT4 Mutant (P1114L), Myc-DDK-tagged ORF clone of Homo sapiens fms-related tyrosine kinase 4 (FLT4), transcript variant 2 as transfection-ready DNA
Effect:	Lymphoedema, primary
Symbol:	FLT4
Synonyms:	CHTD7; FLT-4; FLT41; LMPH1A; LMPHM1; PCL; VEGFR-3; VEGFR3
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002020
ORF Size:	3894 bp
Restriction Sites:	SgfI-MluI
ORF Nucleotide Sequence:	>RC402605 representing NM_002020 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GCTACTCCATGACCCCCGACCTTGAACATCACGGAGGAGTCACACGTCATCGACACCGGTGACAGCCT  
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GGAGACAAGGACAGCGAGGACACGGGGTGGTGCAGACTGCGAGGGCACAGACGCCAGGCCCTACTGCA  
AGGTGTTGCTGCTGCACGAGGTACATGCCAACGACACAGGCAGCTACGCTGCTACTACAAGTACATCAA  
GGCAGCATCGAGGGCACCGCCGAGCTCCTACGTGTTTCGTGAGAGACTTTGAGCAGCCATTATC  
AACAGCCTGACAGCTCTTGGTCAACAGGAAGGACGCCATGTGGGTGCCCTGTCTGGTGTCCATCCCCG



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GCCTCAATGTCACGCTGCGCTCGCAAAGCTCGGTGCTGTGGCCAGACGGGCAGGAGGTGGTGTGGGATGA  
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AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:** >RC402605 representing NM\_002020  
 Red=Cloning site Green=Tags(s)

MQRGAALCLRLWLCGLLDGLVSGYSMTPTLNITEESHVIDTGDSLISICRQHPLEWAWPGAQEAPAT  
 GDKDSEDTGVVRDCEGTDARPYCKVLLLEHVHANDTGSYVCYKYIKARIEGTTAASSYVFVRDFEQPFI  
 NKPDTLLVNRKDAMWVPLVSIPLNVTLSQS SVLWPDGQEVVWDDRRGMLVSTPLLHDALYLQ CETTW  
 GDQDFLSNPFLVHITGNELYDIQLLPRKLELLVGEKLVNCTVWAEFNSGVTFDWDYPGKQAERGWVP  
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 ARHATLSLSIPRVAPEHEGHYVCEVQDRRSHDKHCHKKYL SVQALEAPRLTQNL TDLLVNVSDSLEMQCL  
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 KGSMEIVILVGTGVI VFFWVLLLLIFCNMRRPAHADIKTG YLSIIMDPGEVPLEEQCEYL SYDASQWEF  
 PRERLHLGRVLGYGAFGKVVEASAFGIHKGSSCDTVAVKMLKEGATASEHRALMSELKILIHIGNHLNVV  
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 LFARFSKTEGGARRASPDQEAEDLWLSPLTMEDLVCYSFQVARGMEFLASRCKIHRDLAARNILLSESDV  
 VKICDFGLARDIYKDPDYVRKGSARLPLKWMAPESIFDKVYTTQSDVWSFGVLLWEIFSLGASLYPGVQI  
 NEEFCQRLRDGTRMRAPELATPAIRRIMLNCWSDGPKARPAFSELVEILGDLLQGRGLQEEEEVCMAPRS  
 SQSSEEGSFQVSTMALHIAQADAEDSPPSLQRHSLAARYYNWVSFPGCLARGAETRGSRRMKTFFEEFPM  
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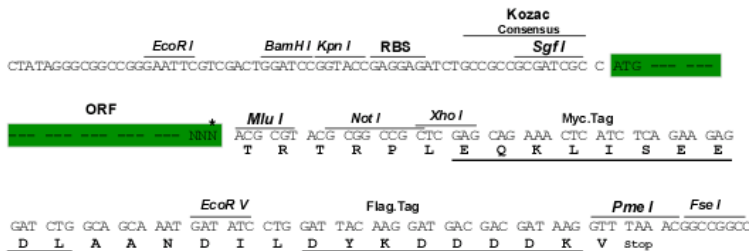
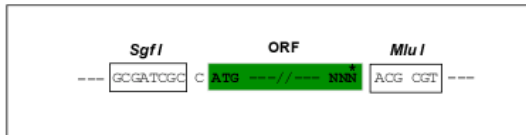
SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<u>NP_002011</u>
<b>RefSeq Size:</b>	3894 bp
<b>RefSeq ORF:</b>	3897 bp
<b>Locus ID:</b>	2324
<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>MW:</b>	142.8 kDa
<b>Gene Summary:</b>	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]