

Product datasheet for **RC233505**

Flt3 ligand (FLT3LG) (NM_001204502) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flt3 ligand (FLT3LG) (NM_001204502) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flt3 ligand
Synonyms:	FL; FLG3L; FLT3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233505 representing NM_001204502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGTGTGGCGCCAGCCTGGAGCCCAACGACCTATCTCCTCTGCTGCTGCTGAGCTCGGGAC
TCAGTGGGACCCAGGACTGCTCCTTCCAACACAGCCCCATCTCCTCCGACTTCGCTGTCAAATCCGTGA
GCTGTCTGACTACCTGCTTCAAGATTACCCAGTCACCGTGGCCTCCAACCTGCAGGACGAGGAGCTCTGC
GGGGCCCTCTGGCGGCTGGTCTGGCACAGCGCTGGATGGAGCGGCTCAAGACTGTGCTGGTCCAAGA
TGCAAGGCTTGTGGAGCGGTGAACACGGAGATACACTTGTACCAAATGTGCCTTTAGCCCCCCCC
CAGCTGTCTTCGCTTCGTCAGACCAACATCTCCCGCTCCTGCAGGAGACCTCCGAGCAGCTGGTGGCG
CTGAAGCCCTGGATCACTCGCCAGAACTTCTCCCGGTGCCTGGAGCTGCAGTGTGAGCCGACTCCTCAA
CCCTGCCACCCCATGGAGTCCCCGGCCCTGGAGGCCACAGCCCCGACAGCCCCGAGCCCCCTCTGCT
CCTCCTACTGCTGCTGCCCGTGGGCTCCTGCTGCTGGCCGCTGCCTGGTGCCTGCAGTGGCAGAGGACG
CGGCGGAGGACACCCCGCCTGGGAGCAGGTGCCCCCGTCCCACTCCAGGACCTGCTGCTTGTGG
AGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233505 representing NM_001204502
 Red=Cloning site Green=Tags(s)

MTVLAPAWSPTTYLLLLLLLLSSGLSGTQDCSFQHSPISSDFAVKIRELSDYLLQDYPVTVASNLQDEELC
 GGLWRLVLAQRWMERLKTAVGSKMQGLLERVNTIEIHFVTKCAFQPPPSCLRFVQTNISRLQLQETSEQLVA
 LKPWITRQNF SRCLELQCQPDSSSTLPPWSPRPLEATAPTAPQPPLLLLLLLLPVGLLLLLAAAWCLHWQRT
 RRRTPRPGEQVPPVPSQDLLLLVEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6604_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001204502

ORF Size: 705 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 complete ORF 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_001204502.1](#), [NP_001191431.1](#)

RefSeq Size: 1125 bp

RefSeq ORF: 708 bp

Locus ID: 2323

UniProt ID: [P49771](#)

Cytogenetics: 19q13.33

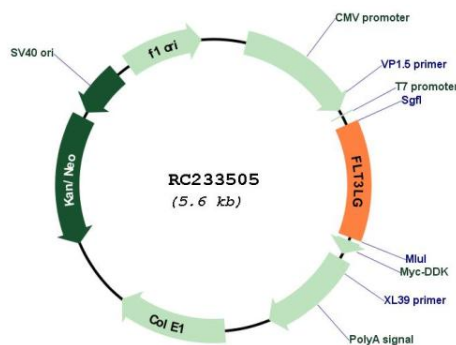
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Pathways in cancer

MW: 26.4 kDa

Gene Summary: Dendritic cells (DCs) provide the key link between innate and adaptive immunity by recognizing pathogens and priming pathogen-specific immune responses. FLT3LG controls the development of DCs and is particularly important for plasmacytoid DCs and CD8 (see MIM 186910)-positive classical DCs and their CD103 (ITGAE; MIM 604682)-positive tissue counterparts (summary by Sathaliyawala et al., 2010 [PubMed 20933441]).[supplied by OMIM, Jan 2011]

Product images:



Circular map for RC233505