

Product datasheet for RC236103

Flt3 ligand (FLT3LG) (NM_001278637) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Flt3 ligand (FLT3LG) (NM_001278637) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FLT3LG
Synonyms: FL; FLG3L; FLT3L
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236103 representing NM_001278637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGGCTCAAGACTGTCGCTGGTCCAAGATGCAAGGCTTGCTGGAGCGCGTGAACACGGAGATAC
ACTTTGTCACCAAATGTGCCTTTCAGCCCCCCCCAGCTGTCTTCGCTTCGTCCAGACCAACATCTCCCG
CCTCCTGCAGGAGACCTCCGAGCAGCTGGTGGCGCTGAAGCCCTGGATCACTCGCCAGAACTTCTCCCGG
TGCTGGAGCTGCAGTGTGAGCCGACTCCTCAACCCTGCCACCCCATGGAGTCCCGGCCCTGGAGG
CCACAGCCCCGACAGCCCCGAGCCCCCTGCTCCTCCTACTGCTGCTGCCCGTGGGCCTCCTGCTGCT
GGCCGCTGCCTGGTGCCTGCACTGGCAGAGGACGCGGCGGAGGACACCCCGCCCTGGGGAGCAGGTGCC
CCCGTCCCCAGTCCCCAGGACCTGCTGCTTGTGGAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236103 representing NM_001278637
 Red=Cloning site Green=Tags(s)
 MERLKTVAGSKMQGLLERVNTIEIHFVTKCAFQPPPSCLRFVQTNISRLLQETSEQLVALKPWITRQNFSR
 CLELQCQPDSSTLPPWSPRPLEATAPTAPQPLLLLLLLLLPVGLLLLLAAAWCLHWQRTRRRTPRPGEQVP
 PVPSPQDLLLLVEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

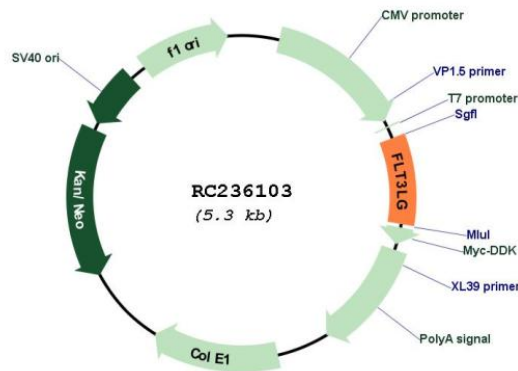


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001278637

ORF Size: 459 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:	<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:	<u>NM_001278637.2</u>
RefSeq Size:	1102 bp
RefSeq ORF:	462 bp
Locus ID:	2323
UniProt ID:	<u>P49771</u>
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:	17.7 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]