

## Product datasheet for **RG222242**

### Flt3 ligand (FLT3LG) (NM\_001459) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Flt3 ligand (FLT3LG) (NM_001459) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Flt3 ligand
Synonyms:	FL; FLG3L; FLT3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222242 representing NM_001459 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGTGTGGCGCCAGCCTGGAGCCCAACGACCTATCTCCTCTGCTGCTGCTGAGCTCGGGAC  
TCAGTGGGACCCAGGACTGCTCCTTCCAACACAGCCCCATCTCCTCCGACTTCGCTGTCAAATCCGTGA  
GCTGTCTGACTACCTGCTTCAAGATTACCCAGTCACCGTGGCCTCCAACCTGCAGGACGAGGAGCTCTGC  
GGGGCCTCTGGCGGCTGGTCTGGCACAGCGCTGGATGGAGCGGCTCAAGACTGTGCTGGTCCAAGA  
TGCAAGGCTTGTGGAGCGGTGAACACGGAGATACACTTTGTACCAAATGTGCCTTTAGCCCCCCCC  
CAGCTGTCTTCGCTTCGTCAGACCAACATCTCCCGCCTCTGCAGGAGACCTCCGAGCAGCTGGTGGCG  
CTGAAGCCCTGGATCACTCGCCAGAACTTCTCCCGGTGCCTGGAGCTGCAGTGTGACGCCGACTCCTCAA  
CCCTGCCACCCCATGGAGTCCCCGGCCCTGGAGGCCACAGCCCCGACAGCCCCGAGCCCCCTCTGCT  
CCTCCTACTGCTGCTGCCCGTGGGCTCCTGCTGCTGGCCGCTGCCTGGTGCCTGCAGTGGCAGAGGACG  
CGGCGGAGGACACCCCGCCTGGGAGCAGGTGCCCCCGTCCCACTCCAGGACCTGCTGCTTGTGG  
AGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222242 representing NM\_001459  
 Red=Cloning site Green=Tags(s)

MTVLAPAWSPTTYLLLLLLLLSSGLSGTQDCSFQHSPISSDFAVKIRELSDYLLQDYPVTVASNLQDEELC  
 GGLWRLVLAQRWMERLKTAVAGSKMQGLLERVNTIEIHFVTKCAFQPPPSCLRFVQTNISRLLQETSEQLVA  
 LKPWITRQNF SRCLELQCQPDSSSTLPPWSPRPLEATAPTAPQPPLLLLLLLLPVGLLLLLAAAWCLHWQRT  
 RRRTPRPGEQVPPVPSQDLLLLVEH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001459

**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\\_001459.2](#), [NP\\_001450.2](#)

**RefSeq Size:** 1056 bp

**RefSeq ORF:** 708 bp

**Locus ID:** 2323

**UniProt ID:** [P49771](#)

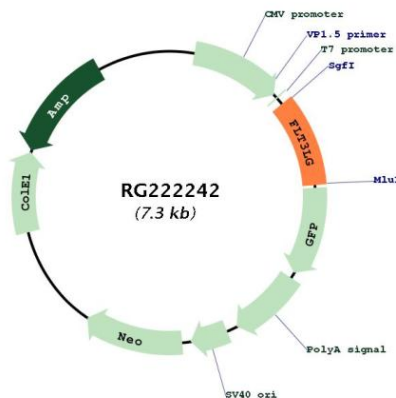
**Cytogenetics:** 19q13.33

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

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

**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 RG222242