

Product datasheet for **RG236103**

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: TurboGFP
Symbol: FLT3LG
Synonyms: FL; FLG3L; FLT3L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236103 representing NM_001278637.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCGGCTCAAGACTGTCGCTGGGTCCAAGATGCAAGGCTTGCTGGAGCGCGTGAACACGGAGATA
CACTTTGTACCAAATGTGCCTTCAGCCCCCCCCAGCTGTCTTCGCTTCGTCAGACCAACATCTCC
CGCCTCTGCAGGAGACCTCCGAGCAGCTGGTGGCGCTGAAGCCCTGGATCACTCGCCAGAACTTCTCC
CGGTGCCTGGAGCTGCAGTGTGAGCCGACTCCTCAACCTGCCACCCCATGGAGTCCCCGGCCCTG
GAGGCCACAGCCCGACAGCCCGAGCCCTCTGCTCCTCTACTGCTGCTGCCCGTGGGCTCCTG
CTGCTGGCCGCTGCCTGGTGCCTGCACTGGCAGAGGACGCGGCGGAGGACACCCCGCCCTGGGGAGCAG
GTGCCCCCGTCCCCAGTCCCCAGGACCTGCTGCTTGTGGAGCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236103
Blue=ORF Red=Cloning site Green=Tag(s)

```
MERLKTVAGSKMQGLLERVNTIEHFVTKCAFQPPPSCLRFVQTNISRLLQETSEQLVAKPWITRQNF
RCLLELQCQPDSSLPPPWSRPLEATAPTAPQPPLLLLLLLPVGLLLAAAWCLHWQRTRRRTPRGEQ
VPPVPSQDLLLLVEH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

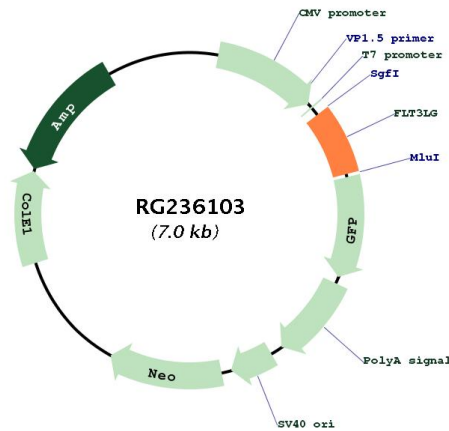


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Cloning Scheme:



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).
RefSeq:	NM_001278637.2
RefSeq Size:	1102 bp
RefSeq ORF:	462 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:	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]