

Product datasheet for RG235849

OriGene Technologies, Inc.

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Fas Ligand (FASLG) (NM 001302746) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Fas Ligand (FASLG) (NM_001302746) Human Tagged ORF Clone

Tag: **TurboGFP** Symbol: **FASLG**

Synonyms: ALPS1B; APT1LG1; APTL; CD95-L; CD95L; CD178; FASL; TNFSF6; TNLG1A

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG235849 representing NM_001302746. Blue=ORF Red=Cloning site Green=Tag(s) Sequence:

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGCAGCAGCCCTTCAATTACCCATATCCCCAGATCTACTGGGTGGACAGCAGTGCCAGCTCTCCCTGG GCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCCAGAAGGCCTGGTCAAAGGAGGCCACCA CCACCACCGCCACCGCCACTACCACCTCCGCCGCCGCCGCCACCACTGCCTCCACTACCGCTGCCA CCCCTGAAGAAGAGAGGGAACCACAGCACAGGCCTGTGTCTCCTTGTGATGTTTTTCATGGTTCTGGTT GCCTTGGTAGGATTGGGCCTGGGGATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAACTCCGA

GAGGCCACCCCAGTCCACCCCCTGAAAAAAAGGAGC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

>Peptide sequence encoded by RG235849

Protein Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPPPPPPPPPPPPLPPLPLP

PLKKRGNHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELREATPVHPLKKRS

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA

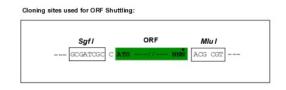
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

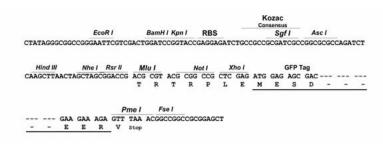
Restriction Sites: Sgfl-Mlul



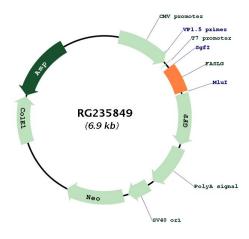


Cloning Scheme:





Plasmid Map:



ACCN: NM_001302746

ORF Size: 381 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



Fas Ligand (FASLG) (NM_001302746) Human Tagged ORF Clone - RG235849

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: <u>NM 001302746.1</u>, <u>NP 001289675.1</u>

RefSeq Size: 1861 bp
RefSeq ORF: 384 bp
Locus ID: 356
UniProt ID: P48023
Cytogenetics: 1q24.3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Allograft rejection, Apoptosis, Autoimmune thyroid disease, Cytokine-cytokine receptor

interaction, Graft-versus-host disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Pathways in cancer, Type I diabetes mellitus

MW: 14 kDa

Gene Summary: This gene is a member of the tumor necrosis factor superfamily. The primary function of the

encoded transmembrane protein is the induction of apoptosis triggered by binding to FAS. The FAS/FASLG signaling pathway is essential for immune system regulation, including activation-induced cell death (AICD) of T cells and cytotoxic T lymphocyte induced cell death. It has also been implicated in the progression of several cancers. Defects in this gene may be related to some cases of systemic lupus erythematosus (SLE). Alternatively spliced transcript

variants have been described. [provided by RefSeq, Nov 2014]