

Product datasheet for **RC235849**

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: Myc-DDK
Symbol: Fas Ligand
Synonyms: ALPS1B; APT1LG1; APTL; CD95-L; CD95L; CD178; FASL; TNFSF6; TNLG1A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC235849 representing NM_001302746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCAGCCCTTCAATTACCCATATCCCAGATCTACTGGGTGGACAGCAGTGCCAGCTCTCCCTGGG
 CCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCAGAAGGCCTGGTCAAAGGAGGCCACCACC
 ACCACCGCCACCGCCACCACTACCACCTCCGCCGCCGCCACCACTGCCTCCACTACCGCTGCCACCC
 CTGAAGAAGAGAGGAACCACAGCACAGGCCTGTGTCTCCTTGTGATGTTTTTCATGGTTCTGGTTGCCT
 TGGTAGGATTGGCCTGGGGATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAACTCCGAGAGGC
 CACCCCAGTCCACCCCTGAAAAAAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235849 representing NM_001302746
 Red=Cloning site Green=Tags(s)
 MQQPFNYYPYQIYWVDSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPLPPLPLPP
 LKRGHSTGLCLLVFMVFLVALVGLGLGMFQLFHLQKELAEAREATPVHPLKKRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


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](#)

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_001302746.1](#), [NP_001289675.1](#)

RefSeq Size: 1861 bp

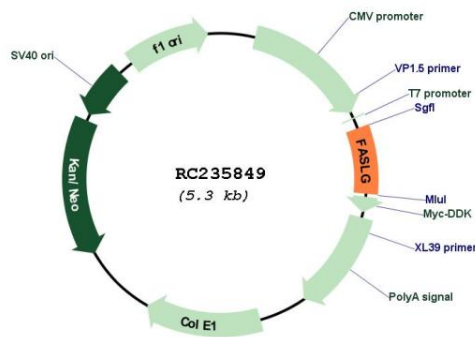
RefSeq ORF: 384 bp

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]

Product images:



Circular map for RC235849