

Product datasheet for SC119739

Fas Ligand (FASLG) (NM_000639) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fas Ligand (FASLG) (NM_000639) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fas Ligand
Synonyms:	ALPS1B; APT1LG1; APTL; CD95-L; CD95L; CD178; FASL; TNFSF6; TNLG1A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119739 sequence for NM_000639 edited (data generated by NextGen Sequencing)

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ATGCAGCAGCCCTTCAATTACCCATATCCCCAGATCTACTGGGTGGACAGCAGTGCCAGC
TCTCCCTGGGCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCAGAAAGCCT
GGTCAAAGGAGGCCACCACCACCACCGCCACCGCCACCACTACCACCTCCGCCGCCGCCG
CCACCACTGCCTCCACTACCGCTGCCACCCCTGAAGAAGAGAGGGAACCACAGCACAGGC
CTGTGTCTCCTTGTGATGTTTTTCATGGTTCTGGTTGCCTTGGTAGGATTGGCCTGGGG
ATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAACTCCGAGAGTCTACCAGCCAG
ATGCACACAGCATCATCTTTGGAGAAGCAAATAGGCCACCCAGTCCACCCCTGAAAAA
AAGGAGCTGAGGAAAGTGCCCATTTAACAGGCAAGTCCAACCTCAAGTCCATGCCTCTG
GAATGGGAAGACACCTATGGAATTGCTCTTCTGGAGTGAAGTATAAGAAGGTGGC
CTTGATCAATGAACTGGGCTGACTTTGTATATTCCAAAGTATACTTCCGGGGTCAA
TCTTGCAACAACCTGCCCTGAGCCACAAGGTCTACATGAGGAACTCTAAGTATCCCCAG
GATCTGGTATGATGGAGGGGAAGATGATGAGCTACTGCACTACTGGGCAGATGTGGGCC
CGCAGCAGCTACCTGGGGCAGTGTTCAATCTTACCAGTCTGATCATTATATGTCAAC
GTATCTGAGCTCTCTGGTCAATTTTGAGGAATCTCAGACGTTTTTTCGGCTTATATAAG
CTCTAA

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Clone variation with respect to NM_000639.1



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000639 unedited
 TAAGTCATATTTGTATACGACTCATATAGGCGGCCGACGAATTCGCACCAGGTCCTTGAC
 ACCTCAGCCTCTAAGGACTGAGAAGAAGTAAAACCGTTTGGCTGGGGCTGGCCTGACTCAC
 CAGCTGCCATGCAGCAGCCCTTCAATTACCCATATCCCCAGATCTACTGGGTGGACAGCA
 GTGCCAGCTCTCCCTGGGCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCA
 GAAGGCCTGGTCAAAGGAGGCCACCACCACCACCGCCACCGCCACCACTACCACCTCCGC
 CGCCGCCGCCACCACTGCCTCCACTACCGCTGCCACCCCTGAAGAAGAGAGGGAACCACA
 GCACAGGCCTGTGTCTCCTTGTGATGTTTTTCATGGTTCTGGTTGCCTTGGTAGGATTGG
 GCCTGGGGATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAACTCCGAGAGTCTA
 CCAGCCAGATGCACACAGCATCATCTTTGGAGAAGCAAATAGGCCACCCAGTCCACCCC
 CTGAAAAAAGGAGCTGAGGAAAGTGGCCATTTAACAGGCAAGTCCAACCTCAAGGTCCA
 TGCCTCTGGAATGGGAAGACACCTATGGAATTGCCTGCTTTCTGGAGTGAAGTATAAGA
 AGGGTGGCCTTGTGATCAATGAACTGGGCTGTACTTTGTATATCCAAAGTATACTTCC
 GGAGTCAATCTTGCAACAACCTGCCCTGAGCCACAAGGTCTACATGATGAACTCTAGT
 ANTCCCAGGATCTGGTGTGATGGAGGGGAAGATGATGAGCTACTGCCTACTGGGCAG
 ATGTGGGCCCGCAGCAGTACCTGGGGGAGTGGTCAATCTTACCCAGTCTGATCATT
 TATGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000639 unedited
 NAAANTTTAGCTTTGGACCCGCGCCGCATNCTAGNGATCGGTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTGGGACCCAAACATAAACTTTTTATTAC
 AGGTTTTTCATTTACAAAAAGGCCATCTCCCTAAATTTTTATTATTTTATAGGAAAACA
 TCTTTAGTAGCTGACAATCAAGGATTTTAAAGCCTTTTAAAGTTGATTGTCAGGAACCA
 TTCAAATTTTGACCAAAGGCAACCCATATTTTCTAATATGGCCTTACAAATATCTACA
 TTCTTTTTTTAGTCATACACACACACACCCACACACCCCCACACCCCCCTTACAATGGG
 ACTGAAAATACCCATGCTGGGTTAGGAATGAAATGAGTCCCCAAAACATTTCTTTTGCTT
 ATCTGGAAGTCCACCGAGGGCTCAGGATTTGCTTTTAAAAGGGAAAATGCTGCCAGGGG
 GGCATTGGCCTTTTTACCCTTTTTAGCTTATTATGCAAGCCTCTAGTCTTCTTTTCCA
 TCCCTTAAATCCTCAGGGCACAACCATGTTTCTGAAAAACAGCCCCCTTGAGGTAGCAA
 GGCCACCTTGAGAGGGGAGTAAAAGGGTCTTTTTCAATCTGCCTAAATACTCTCAGG
 CCCTAAGATGAGGTGAAAAACACCTGGGANCGGGTTTTTAAATGCTTCCCCCTTAAACA
 GGGGAGCCCAAGAGTTCTATGGTCTCCGCACATATCCCCCTTTGGGGGGGCGTCATA
 ACCCTTAGGGGAAGTTGAGGGAGCTCCAAAACATTTGAACCCCGTGGGGTCCAAAGG
 GGCCACTTGGGTCTAGGTTTTTTACCCTGGCCCAAAGGCGTTGAAAAAACCCCTT
 CCTGGAACACAATTTCTGGGGGCTGGTAAACAAAATTTATAGGGAAGAATC

Restriction Sites:

NotI-NotI

ACCN:

NM_000639

Insert Size:

1790 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_000639.1](#), [NP_000630.1](#)

RefSeq Size: 1909 bp

RefSeq ORF: 846 bp

Locus ID: 356

UniProt ID: [P48023](#)

Cytogenetics: 1q24.3

Domains: TNF

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

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).