

Product datasheet for **RC204894**

Fas Ligand (FASLG) (NM_000639) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fas Ligand (FASLG) (NM_000639) 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:	>RC204894 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCAGCCCTTCAATTACCCATATCCCAGATCTACTGGGTGGACAGCAGTGCCAGCTCTCCCTGGG
CCCCTCCAGGCACAGTTCTTCCCTGTCCAACCTCTGTGCCCAGAAGGCCTGGTCAAAGGAGGCCACCACC
ACCACCGCCACCGCCACCACTACCACCTCCGCCCGCCGCCACCACTGCCTCCACTACCCTGCCACCC
CTGAAGAAGAGAGGGAACCACAGCACAGGCCTGTGTCTCCTTGTGATGTTTTTCATGTTCTGGTTGCCT
TGGTAGGATTGGCCTGGGGATGTTTCAGCTCTTCCACCTACAGAAGGAGCTGGCAGAATCCGAGAGTC
TACCAGCCAGATGCACACAGCATCATCTTTGGAGAAGCAAATAGGCCACCCAGTCCACCCCTGAAAAA
AAGGAGCTGAGGAAAGTGGCCATTTAACAGGCAAGTCCAACCAAGGTCCATGCCTCTGGAATGGGAAG
ACACCTATGGAATTGTCCTGCTTCTGGAGTGAAGTATAAGAAGGGTGGCCTTGTGATCAATGAACTGG
GCTGTACTTTGTATATCCAAAGTATACTTCCGGGGTCAATCTTGCAACAACCTGCCCTGAGCCACAAG
GTCTACATGAGGAACTCTAAGTATCCCCAGGATCTGGTATGATGGAGGGGAAGATGATGAGCTACTGCA
CTACTGGCAGATGTGGCCCGCAGCAGTACCTGGGGCAGTGTCAATCTTACCAGTGCTGATCATTT
ATATGTCAACGTATCTGAGCTCTCTGGTCAATTTGAGGAATCTCAGACGTTTTTCGGCTTATATAAG
CTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204894 protein sequence
Red=Cloning site Green=Tags(s)

MQQPFNYYPQIYWVDSSASSPWAPPGTVLPCTSVPRRPQRRPPPPPPPPPLPPPPPPPLPPLPLPP
 LKKRGNHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELESTSQMHTASSLEKQIGHPSPPPEK
 KELRKVAHLTGKSNRSMPLWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKYVFRGQSCNNLPLSHK
 VYMRNSKYPQDLVMMEGKMMSYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESSQTFGLYK
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6171_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000639

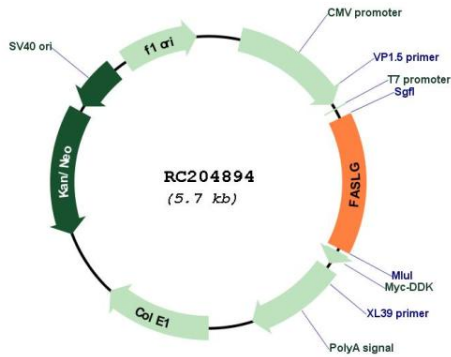
ORF Size: 843 bp

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.

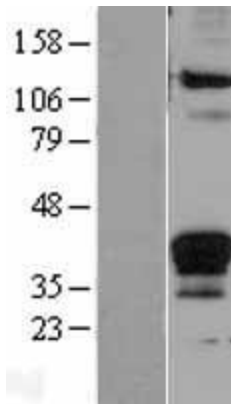
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000639.3
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
MW:	31.5 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 RC204894



Western blot validation of overexpression lysate (Cat# [LY400216]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204894 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).