

Product datasheet for **SC303176**

LIF (NM_002309) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIF (NM_002309) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIF
Synonyms:	CDF; DIA; HILDA; MLPLI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002309 edited ATGAAGGTCTTGGCGGCAGGAGTTGTGCCCTGCTGTTGGTTCTGCACTGAAACATGGG GCGGGGAGCCCCCTCCCATCACCCCTGTCAACGCCACCTGTGCCATACGCCACCCATGT CACAACAACCTCATGAACCAGATCAGGAGCCAACCTGGCACAGCTCAATGGCAGTGCCAAT GCCCTCTTTATTCTCTATTACACAGCCCAGGGGAGCCGTTCCCCAACCACTGGACAAG CTATGTGGCCCCAACGTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCC AAGCTGGTGGAGCTGTACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACC CGGGACCAGAAGATCCTCAACCCAGTGCCCTCAGCCTCCACAGCAAGCTCAACGCCACC GCCGACATCCTGCGAGGCCTCCTTAGCAACGTGCTGTGCCGCTGTGCAGCAAGTACCAC GTGGCCATGTGGACGTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCAGAAG AAGAAGCTGGGCTGTCAACTCCTGGGAAGTATAAGCAGATCATCGCCGTGTTGGCCAG GCCTTCTAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002309 unedited
 NGAGTACAAAATTTGTATACGACTCACTATAGGCGGCCGCGNATTCATGAAGTCTTGGCG
 GCAGGAGTTGTGCCCTGCTGTTGGTTCTGCACTGGAAACATGGGGCGGGGAGCCCCCTC
 CCCATCACCCCTGTCAACGCCACCTGTGCCATACGCCACCCATGTCAACAACCTCATG
 AACCAGATCAGGAGCCAACTGGCACAGCTCAATGGCAGTGCCAATGCCCTCTTTATTCTC
 TATTACACAGCCCAGGGGAGCCGTTCCCAACAACCTGGACAAGCTATGTGGCCCCAAC
 GTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCCAAGCTGGTGGAGCTG
 TACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACCCGGGACCAGAAGATC
 CTAACCCCAAGTGCCTCAGCCTCCACAGCAAGCTCAACGCCACCGCCGACATCCTGCGA
 GGCTCCTTAGCAACGTGCTGTGCCCTGTGCAGCAAGTACCACGTGGGCCATGTGGAC
 GTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCAGAAGAAGAAGCTGGGCTGT
 CAACTCCTGNNGAAGTATAAGCAGATCATCGCCGTGTGGCCAGGCCTTCTAGTGCAC
 TCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGTGGCATCCCTGTG
 ACCCTCCCAGTGCCTCTCTGGCCCTGGGAGTTGCCACTCCAGTGCCACCAGCCTTG
 TCCTAATAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCCTTCTATATATTATGGGG
 TGGGGGGGTGGGTATGGAACAGGGGGCAAAGTGGGAAGAAACCTGTAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002309 unedited
 GNANGAGCACTGGGNGAGGTACAGGGATGCCACCCGGGATCTGTTCCAGGAAACAGCTA
 TGACCGCGGCCGCAATCTAGAGTCGACCTAGAAGGCTGGGCCAACACGGCGATGATCTG
 CTTATACTTCCCAGGAGTTGACAGCCCAGCTTCTTCTTCTGGAAGACATCCTTACCCGA
 GGTGTCAGGGCCGTAGGTCACGTCCACATGGCCCACGTGGTACTTGTGCACAGGCGGCA
 CAGCACGTTGCTAAGGAGCCTCGCAGGATGTCGGCGGTGGCGTTGAGCTTGTGTGGAG
 GCTGAGGGCACTGGGGTTGAGGATCTTCTGGTCCCGGGTATGTTGCCAGGGAGGTGCC
 AAGGTACACGACTATGCGGTACAGCTCCACCAGCTTGGCCTTCTCCGTGCCGTTGGCGTG
 GAAGGGCGGGAAGTCCGTACGTTGGGGCCACATAGCTTGTCCAGGTTGTTGGGGAACGG
 CTCCCCCTGGGCTGTGTAATAGAGAATAAAGAGGGCATTGGCACTGCCATTGAGCTGTGC
 CAGTTGGCTCCTGATCTGGTTATGAGGTTGTTGTGACATGGGTGGCGTATGGCACAGGT
 GGCGTTGACAGGGGTATGGGAAAAGGGGCCTTCCGCCCATGTTTCCAGTGCAGAACCA
 ACAGCAGGGGCACAACCTCTGCCCAAGACCTTCAATGAATTCGCGGCCGCCCTATAGTG
 AGTCGATTACAAAATCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCAC
 CGTACACGCTACCGCCATTTCGTCAACGGGGCGNGGTTATTACGACATTTTGGAAA
 GTCCCGTTGATTT

Restriction Sites:

Please inquire

ACCN:

NM_002309

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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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.
RefSeq:	NM_002309.2 , NP_002300.1
RefSeq Size:	3868 bp
RefSeq ORF:	609 bp
Locus ID:	3976
UniProt ID:	P15018
Cytogenetics:	22q12.2
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a pleiotropic cytokine with roles in several different systems. It is involved in the induction of hematopoietic differentiation in normal and myeloid leukemia cells, induction of neuronal cell differentiation, regulator of mesenchymal to epithelial conversion during kidney development, and may also have a role in immune tolerance at the maternal-fetal interface. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>