

Product datasheet for **MG223901**

Lif (NM_001039537) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lif (NM_001039537) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lif
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223901 representing NM_001039537
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCAGATCAAGAATCAACTGGCACAGCTCAATGGCAGCGCCAATGCTCTTTCATTTCCTATTACA
CAGCTCAAGGGGAGCCGTTTCCCAACAACGTGGAAAAGCTATGTGCGCCTAACATGACAGACTTCCCATC
TTTCCATGGCAACGGGACAGAGAAGACCAAGTTGGTGGAGCTGTATCGGATGGTCGCATACCTGAGCGCC
TCCCTGACCAATATCACCCGGGACCAGAAGTCTCCTGAACCCCACTGCCGTGAGCCTCCAGGTCAAGCTCA
ATGCTACTATAGACGTCATGAGGGGCCTCCTCAGCAATGTGCTTTGCCGTCTGTGCAACAAGTACCGTGT
GGGCCACGTGGATGTGCCACCTGTCCCGACCACTCTGACAAAGAAGCCTTCCAAAGGAAAAAGTTGGGT
TGCCAGCTTCTGGGGACATAACAAGCAAGTCATAAGTGTGGTGGTCCAGGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223901 representing NM_001039537
Red=Cloning site Green=Tags(s)

MNQIKNQLAQLNGSANALFISYYTAQGEPPFNNVEKLCAPNMTDFPSFHNGTEKTKLVELYRMVAYLSA
SLTNITRDQKVLNPTAVSLQVKLNATIDVMRGLLSNVLCRLCNKYRVGHVDVPPVPDHSKKEAFQRKLLG
CQLLGTYKQVISVVVQAF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

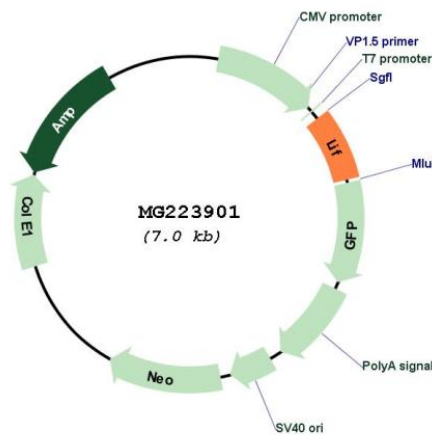


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001039537

ORF Size: 474 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:	<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:	<u>NM_001039537.2</u> , <u>NP_001034626.1</u>
RefSeq Size:	3798 bp
RefSeq ORF:	477 bp
Locus ID:	16878
UniProt ID:	<u>P09056</u>
Cytogenetics:	11 2.94 cM
Gene Summary:	LIF has the capacity to induce terminal differentiation in leukemic cells. Its activities include the induction of hematopoietic differentiation in normal and myeloid leukemia cells, the induction of neuronal cell differentiation, and the stimulation of acute-phase protein synthesis in hepatocytes.[UniProtKB/Swiss-Prot Function]