

Product datasheet for **MR223120**

Lif (NM_008501) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lif (NM_008501) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lif
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223120 representing NM_008501
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGTCTTGCCGCAGGGATTGTGCCCTTACTGCTGCTGGTTCTGCACTGGAAACACGGGGCAGGGA
GCCCTCTTCCCATCACCCCTGTAAATGCCACCTGTGCCATACGCCACCCATGCCACGGCAACCTCATGAA
CCAGATCAAGAATCAACTGGCACAGTCAATGGCAGCGCCAATGCTCTCTTCATTTCCTATTACACAGCT
CAAGGGGAGCCGTTTCCCAACAACGTGGAAAAGCTATGTGCGCCTAACATGACAGACTTCCCATCTTTCC
ATGGCAACGGGACAGAGAAGACCAAGTTGGTGGAGCTGTATCGGATGGTCGCATACCTGAGCGCCTCCCT
GACCAATATCACCCGGGACAGAAAGTCTGAACCCCACTGCCGTGAGCCTCCAGGTCAAGCTCAATGCT
ACTATAGACGTCATGAGGGGCCTCCTCAGCAATGTGCTTTGCCGTCTGTGCAACAAGTACCGTGTGGGCC
ACGTGGATGTGCCACCTGTCCCGACCACTCTGACAAAGAAGCCTTCCAAAGGAAAAAGTTGGTTGCCA
GCTTCTGGGGACATACAAGCAAGTCATAAGTGTGGTGGTCCAGGCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223120 representing NM_008501
Red=Cloning site Green=Tags(s)

MKVLAAGIVPLLLLVLHWKHGAGSPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTA
QGEPFPNNVEKLCAPNMTDFPSFHNGTEKTLVELYRMVAYLSASLTNITRDQKVLNPTAVSLQVKLNA
TIDVMRGLLSNVLCRLCNKYRVGHVDVPPVDPHSDKEAFQRKKLGCQLLGTQKQVISVVVQAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1264_e11.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008501

ORF Size: 609 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:

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_008501.2, NP_032527.1

RefSeq Size: 4015 bp

RefSeq ORF: 612 bp

Locus ID: 16878

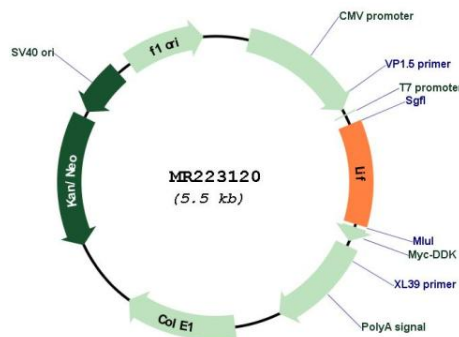
UniProt ID: P09056

Cytogenetics: 11 2.94 cM

MW: 22.7 kDa

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]

Product images:



Circular map for MR223120