

## Product datasheet for MR221059

### Lifr (NM\_013584) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lifr (NM_013584) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lifr
Synonyms:	A230075M04Rik; AW061234; LIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221059 representing NM_013584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTTACTCATGGTGGAGACAGCCATCGTGGATGGTAGACAATAAAAGATCGAGGATGACTCCAA  
ACCTGCCATGGCTCCTGTCAGCTCTGACCCTCCTGCATCTGACGATGCATGCAAACGGTCTGAAGAGAGG  
GGTACAAGACTTGAAATGCACAACCAACAACATGCGAGTGTGGGACTGCACGTGGCCAGCTCCCCTCGGG  
GTCAGCCCTGGAAGTGTAAAGATATTTGCATTAAGACAGGTTCCATTCTGTACCCATTAGAGACAA  
CAAACGTTAAATTCAGCTCTTTCACCTGGTGATCACGAAGTACAATAAATTATCTAAATGGCTTTCA  
GAGTAAATTCAGTGAATGAAAAAGATGTCTCTTAATTCAGAGACTCCCAGATCCTGGATTTGTCT  
GCTGACTTCTTCCCTCCTTACTACTGAAAGTGAACGACAGAGGGTCTGCTCTGCCTCACCCCTCCA  
ATGCCACCTGGGAGATTAAGTTCTACAGAATCCAAGGACGGAACAGTAGCACTCGTGTACTCAACAC  
AATGCTGAGTGGTAAAGATACCGTTTCAGCACTGGAAGTGGACCTCAGACCTGCCCTTGCAATGTGCCACT  
CACTCGGTGAGCATTGATGGCATTGACTCGCTCATTTCTCCGGTACAAGAGTGGAGTACTGGA  
GCCCCGCTGAAGAATCTCCTGGATTCGTAATACAGAGACTAATGTTTTCTCAAGACAAAGTGGTGTCT  
CGCAGGCTCAAACATGACAATTTGTTGTATGAGTCCAACGAAAGTGTCTTCAGGACAGATCGGCAATACC  
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TCCCGATGTTCCCTCAGAAGCTGAGCTGTGAGACACATGACTTAAAGAGATTATATGTAGCTGGAATCCA  
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CGGCAGTATTTACAGGATTGAAGGACTTACAACGAGACCTACCGTTAGGCGTGCAAATGCATCCCGG  
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TTACATTTCTTGGTATTTACCAGGAAATTTACAAGATTAATCTTTTATGTCAAATTTGAAATTTGTAA  
AGCTAATTCGAAGAAAGAGTGAAGGATGCCACAATCAGAGGAGCCGAGGATTCAACTTACCATGTTGCT



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GTAGACAAATTAATCCATACACTGCATACACTTCCGGGTTTCGTTGTTCTTCCAAGACTTCTGGAAGT  
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221059 representing NM\_013584  
 Red=Cloning site Green=Tags(s)

MAAYSWWRQPSWVMDNKRSMTPNLPWLLSAL TLLHL TMHANGLKRGVQDLKCTTNMNRVWDCTWPAPLG  
 VSPGTVKIDICIKDRFHSCHPLETTNVKIPALSPGDHEVTINYLNGFQSKFTLNEKDVSLIPETPEILDLS  
 ADFFTSLLLLKWNDRGSALPHPSNATWEIKVLQNPRTPEVALVLLNTMLSGKDTVQHWNWTS DLPLQCAT  
 HVSIRWHIDSPHFSGYKEWSDWSPLKNI SWIRNTE TNVFPQDKVVLAGSNMTICCMSPTKVL SGQIGNT  
 LRPLIHL YGQTVAIHILNIPVSENSGTNIFITDDDDVYGT VVFA GYPPDPVQKLS CETHDLKEIICSWNP  
 GRITGLVGRNTEYTLFESISGKSAVFHRIEGLTNETYRLGVQMHPGQEIHNFTLTGRNPLGQAQSAVVI  
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 VDKLNPYTAYTFRVRCSSKTFWKWSRWSDEKRHLTTEATPSKGPDTWREWSSDGKNLIVYWKPLINEAN  
 GKILSYNVSCSLNEETQSVLEIFDPQHRAEIQLSKNDYIISVVARNSAGSSPPSKIASMEIPNDITVEQ  
 AVGLGNRIFL TWRHDPNMTCDYVIKWCNSSRSEPCLLDWRKVPSNSTETVIESDQFQPGVRYNFYLYGCT  
 NQGYQLLRSIIGYVEELAPIVAPNFTVEDTSADSILVKWDDIPVEELRGFLRGYLYFYFQKGERDTPKTRS  
 LEPHHSDIKLNITDISQKTLRIADLQKTSYHLVLRAYTHGGLGPEKSMFVVTKENS VGLIIAILIPVA  
 VAVIVGVVTSILCYRKREWIKETFYPDIPNPENCKALQFQKSVCEGSNALKTLEMNPCTPNNEVLESRS  
 IVPKIEDTEIISPVAERPERSEVDPENHVVSYPPIIEEITNPAADEVGGASQVYVIDVQSMYQPQA  
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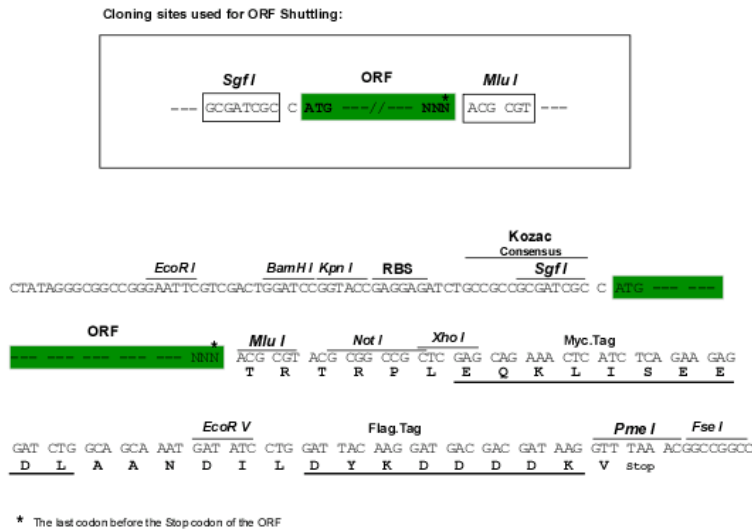
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_c08.zip](https://cdn.origene.com/chromatograms/mm9002_c08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_013584

ORF Size: 3276 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:

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\\_013584.2](#), [NP\\_038612.1](#)

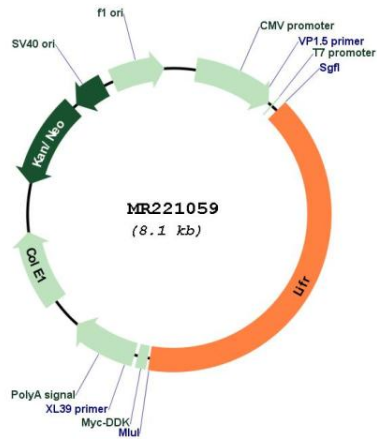
RefSeq Size: 9663 bp

RefSeq ORF: 3279 bp

Locus ID: 16880

UniProt ID: [P42703](#)  
 Cytogenetics: 15 3.46 cM  
 MW: 123 kDa  
 Gene Summary: Signal-transducing molecule. May have a common pathway with IL6ST. The soluble form inhibits the biological activity of LIF by blocking its binding to receptors on target cells. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221059