

Product datasheet for MR201259

Litaf (NM_019980) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Litaf (NM_019980) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Litaf
Synonyms: 3222402J11Rik; C85531; N4WBP3; TBX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201259 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCTCCAGGACCTTACCAAGCAGCTGCAGGCCCTTCAGTAGTGCCACCGCACCCCCAACCTATG
 AAGAAACAGTGGGTGTCAACAGTTACTACCAACGCCCCAGCACCTATGCCGGGACCAGCCACAGGGCT
 CATTACAGGCCAGATGGGAAGGAATGAATCCACCTTCGTAACACCCAGCCTGTGCCTGTCCCCAAC
 GCCAACGCAATTGCCGTGCAGACCGTTTATGTGCAGCAGCCTGTCTCCTTCTATGACCGCCCGTCCAGA
 TGTGCTGCCTTCTGCAGCAAGATGATCGTGACCCAGCTGTCTACAATGCGGGAGCCCTCACCTGGCT
 CTCTGTGGCAGTCTGTGTCTGCTGGGATGCGTTGCTGGCTGCTGCTTCAATCCCGTTCTGCGTAGACGCC
 CTACAGGATGTGGACCACTACTGCCCAACTGCAAAGCGCTCCTGGGCACCTACAAGCGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201259 protein sequence
 Red=Cloning site Green=Tags(s)

MSAPGPYQAAAGPSVVPTAPPTYEETVGVNSYYTPPAPMPGPATGLITGPDGKGMNPPSYTQPVPVPN
 ANAIAVQTVYVQPVFSFYDRPVQMCCPSCSKMIVTQLSYNAGALTWLSCGSLCLLGCVAGCCFIPFCVDA
 LQDVDHYCPNCKALLGTYKRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_019980

ORF Size: 486 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_019980.2](#), [NP_064364.1](#)

RefSeq Size: 2240 bp

RefSeq ORF: 486 bp

Locus ID: 56722

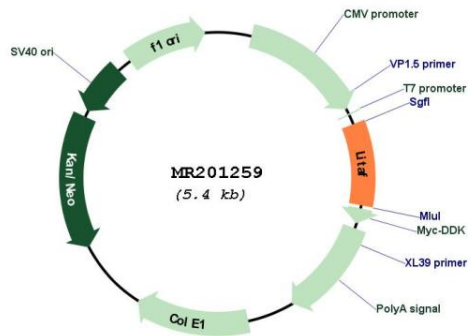
UniProt ID: [Q9JLJ0](#)

Cytogenetics: 16 A1

MW: 16.9 kDa

Gene Summary: Plays a role in endosomal protein trafficking and in targeting proteins for lysosomal degradation. Plays a role in targeting endocytosed EGFR and ERG3 for lysosomal degradation, and thereby helps downregulate downstream signaling cascades (PubMed:23166352). Helps recruit the ESCRT complex components TSG101, HGS and STAM to cytoplasmic membranes. Probably plays a role in regulating protein degradation via its interaction with NEDD4 (By similarity). May also contribute to the regulation of gene expression in the nucleus. Binds DNA (in vitro) and may play a synergistic role with STAT6 in the nucleus in regulating the expression of various cytokines (PubMed:15793005, PubMed:21980379). May regulate the expression of numerous cytokines, such as TNF, CCL2, CCL5, CXCL1, IL1A and IL10 (PubMed:12355436, PubMed:15025820, PubMed:16954198, PubMed:21980379, PubMed:22160695).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201259