

Product datasheet for **MG201259**

Litaf (NM_019980) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Litaf (NM_019980) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Litaf
Synonyms: 3222402J11Rik; C85531; N4WBP3; TBX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201259 representing NM_019980
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCTCCAGGACCTTACCAAGCAGCTGCAGGCCCTTCAGTAGTGCCACCGCACCCCCAACCTATG
AAGAAACAGTGGGTGTCAACAGTTACTACCAACGCCCCAGCACCTATGCCGGGACCAGCCACAGGGCT
CATTACAGGCCAGATGGGAAGGAATGAATCCACCTTCGTAACACCCAGCCTGTGCCTGTCCCCAAC
GCCAACGCAATTGCCGTGCAGACCGTTTATGTGCAGCAGCCTGTCTCCTTCTATGACCGCCCGTCCAGA
TGTGCTGCCTTCTGCAGCAAGATGATCGTGACCCAGCTGTCTACAATGCGGGAGCCCTCACCTGGCT
CTCCTGTGGCAGTCTGTGTCTGCTGGGATGCGTTGCTGGCTGCTGCTTCAATCCCGTTCTGCGTAGAGCC
CTACAGGATGTGGACCACTACTGCCCAACTGCAAAGCGCTCCTGGGCACCTACAAGCGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201259 representing NM_019980
Red=Cloning site Green=Tags(s)

MSAPGPYQAAAGPSVVPPTAPPTYEETVGVNSYPTPPAPMPGPATGLITGPDGKGMNPPSYTQVPVPVN
ANAIQVQTVYVQPVVQVDFYDRPVQMCCPSCSKMIVTQLSYNAGALTWLSCGSLCLLGCVAGCCFIPFCVDA
LQDQVDHYCPNCKALLGTYKRL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

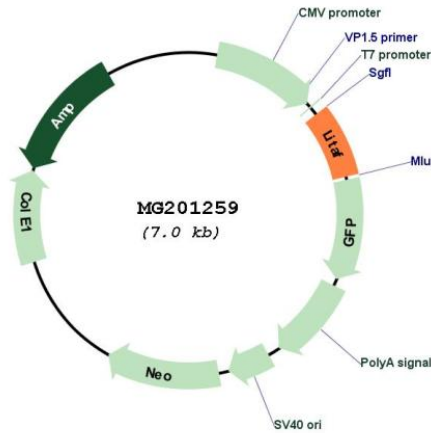


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Cloning Scheme:



Plasmid Map:



ACCN: NM_019980

ORF Size: 483 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_019980.2, NP_064364.1</u>
RefSeq Size:	2205 bp
RefSeq ORF:	486 bp
Locus ID:	56722
UniProt ID:	<u>Q9JLJ0</u>
Cytogenetics:	16 A1
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]