

Product datasheet for **RC226810**

LITAF (NM_001136472) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LITAF (NM_001136472) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LITAF
Synonyms: PIG7; SIMPLE; TP53I7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC226810 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTTCCAGGACCTTACCAGGCGGCCACTGGGCCTTCCTCAGCACCATCCGCACCTCCATCCTATG
AAGAGACAGTGGCTGTTAACAGTTATTACCCACACCTCCAGCTCCCATGCCTGGGCCAACTACGGGGCT
TGTGACGGGGCTGATGGGAAGGGCATGAATCCTCCTTCGTATTATACCCAGCCAGCGCCCATCCCCAAT
AACAAATCAATTACCGTGCAGACGGTCTACGTGCAGACCCCATCACCTTTTTGGACCGCCATCCAA
TGTGTTGTCCTTCTGCAACAAGATGATCGTGAGTCAGCTGTCTATAACGCCGGTCTCTGACCTGGCT
GTCTGCGGGAGCCTGTGCCTGCTGGGGTGCATAGCGGGCTGCTGCTTCATCCCCTCTCGCTGGATGCC
CTGCAGGACGTGGACCATTACTGTCCAACTGCAGAGCTCTCCTGGGCACCTACAAGCGTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226810 protein sequence
Red=Cloning site Green=Tags(s)
MSVPGPYQAATGPSSAPSAPPSYEETVAVNSYYTPPAPMPGPTTGLVTPDGGKGMNPPSYYTQPAPIPN
NNPITVQTVYVQHPITFLDRPIQMCCPSCNKMIVSQLSYNAGALTWLSCGSLCLLGCAGCCFIPFCVDA
LQDVDHYCPNCRALLGTYKRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

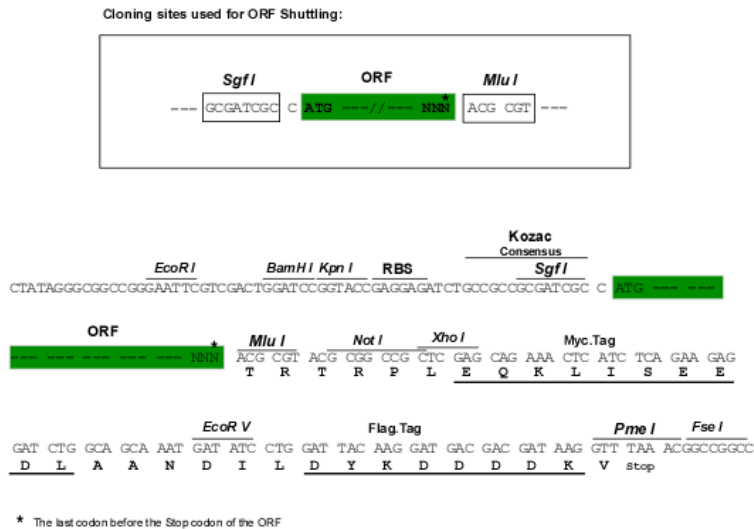
Chromatograms: https://cdn.origene.com/chromatograms/mk6379_h09.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136472

ORF Size: 483 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.

RefSeq: [NM_001136472.1](#), [NP_001129944.1](#)

RefSeq Size: 2479 bp

RefSeq ORF: 486 bp

Locus ID: 9516

UniProt ID: [Q99732](#)

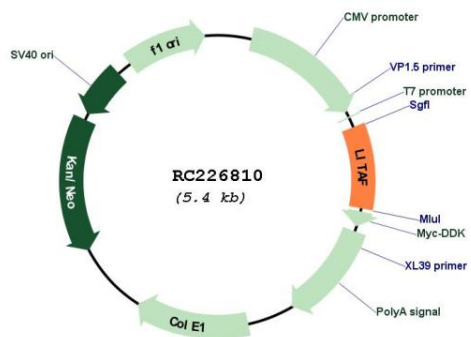
Cytogenetics: 16p13.13

Protein Families: Druggable Genome, Transcription Factors

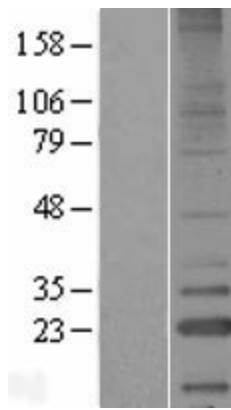
MW: 17.1 kDa

Gene Summary: Lipopolysaccharide is a potent stimulator of monocytes and macrophages, causing secretion of tumor necrosis factor-alpha (TNF-alpha) and other inflammatory mediators. This gene encodes lipopolysaccharide-induced TNF-alpha factor, which is a DNA-binding protein and can mediate the TNF-alpha expression by direct binding to the promoter region of the TNF-alpha gene. The transcription of this gene is induced by tumor suppressor p53 and has been implicated in the p53-induced apoptotic pathway. Mutations in this gene cause Charcot-Marie-Tooth disease type 1C (CMT1C) and may be involved in the carcinogenesis of extramammary Paget's disease (EMPD). Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC226810



Western blot validation of overexpression lysate (Cat# [LY427883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226810 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).