

LAMTOR3 cDNA

Catalog Number: ATGD0164

PRODUCT INFORMATION

Catalog number

ATGD0164

Product type

cDNA

Species

Human

NCBI Accession No.

NP_068805.1

Alternative Names

MAP2K1IP1, MAPBP, MAPKSP1, MP1, PRO0633, Ragulator3

mRNA Refseq

NM_021970.3

OMIM

603296

Chromosome location

4q23

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

375bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

LAMTOR3 cDNA

Catalog Number: ATGD0164

MAPKSP1 encodes a scaffold protein that functions in the extracellular signal-regulated kinase (ERK) cascade. The protein is localized to late endosomes by the mitogen-activated protein-binding protein-interacting protein, and binds specifically to MAP kinase kinase MAP2K1/MEK1, MAP kinase MAPK3/ERK1, and MAP kinase MAPK1/ERK2. Studies of the orthologous gene in mouse indicate that it regulates late endosomal traffic and cell proliferation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 13.

DATA

Sequence nucleotides

```
ATGGCGGATGACCTAAAGCGATTCTTGTATAAAAAGTTACCAAGTGTGGAAGGGCTCCATGCCATTGTTGTGTCAGATAGAG
ATGGAGTACCTGTTATTAAGTGGCAAATGACAATGCTCCAGAGCATGCTTTGCGACCTGGTTTCTTATCCAATTTTGCCCTT
GCAACAGACCAAGGAAGCAAACCTTGGACTTTCCAAAAATAAAAGTATCATCTGTTACTATAACACCTACCAGGTGGTTCAATT
TAATCGTTTACCTTTGGTGGTGAGTTTCATAGCCAGCAGCAGTGCCAATACAGGACTAATTGTCAGCCTAGAAAAGGAACCT
GCTCCATTGTTTGAAGAACTGAGACAAGTTGTGGAAGTTTCTTAA
```

Transaction Sequence

```
MADDLKRFLY KKLPSVEGLH AIVVSDRDGV PVIKVANDNA PEHALRPGFL STFALATDQG SKLGLSKNKS IICYNTYQV
VQFNRLPLVV SFIASSSANT GLIVSLEKEL APLFEELRQV VEVS
```