

Product datasheet for **RC235748**

MAP2K1IP1 (LAMTOR3) (NM_001243736) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAP2K1IP1 (LAMTOR3) (NM_001243736) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LAMTOR3
Synonyms: MAP2K1IP1; MAPBP; MAPKSP1; MP1; PRO0633; Ragulator3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235748 representing NM_001243736
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGATGACCTAAAGCGATTCTTGATAAAAAAGTTACCAAGTGTGAAGGGCTCCATGCCATTGTTG
TGTCAGATAGAGATGGAGTACCTGTTATTAAGAGCATGCTTTCGACCTGGTTTCTTATCCACTTTTGC
CCTTGCAACAGACCAAGGAAGCAAACCTGGACTTCCAAAAATAAAAGTATCATCTGTTACTATAACACC
TACCAGGTGGTTCAATTTAATCGTTTACCTTTGGTGGTGAGTTTCATAGCCAGCAGCAGTCCAATACAG
GACTAATTGTCAGCCTAGAAAAGGAACCTGCTCCATTGTTGAAGAACTGAGACAAGTTGTGGAAGTTTC
T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235748 representing NM_001243736
Red=Cloning site Green=Tags(s)
MADDLKRFLYKKLPSVEGLHAIIVSDRDGVPVIKEHALRPGFLSTFALATDQGSKLGLSKNKSIIICYNT
YQVVQFNRLPLVVSFIASSANTGLIVSLEKELAPLFEELRQVVEVS

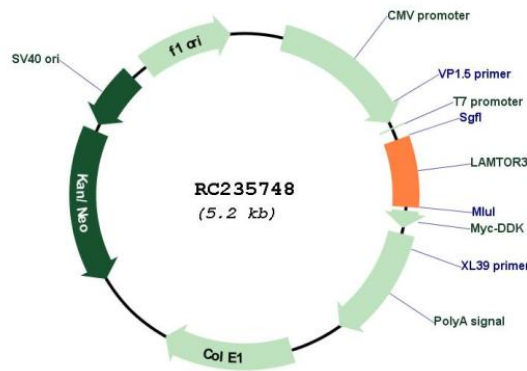
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001243736

ORF Size: 351 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](#)

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|-------------------------------|---|
| 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_001243736.1</u> , <u>NP_001230665.1</u> |
| RefSeq Size: | 4259 bp |
| RefSeq ORF: | 354 bp |
| Locus ID: | 8649 |
| UniProt ID: | <u>Q9UHA4</u> |
| Cytogenetics: | 4q23 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | MAPK signaling pathway |
| MW: | 13.4 kDa |
| Gene Summary: | This gene 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. [provided by RefSeq, Aug 2011] |