

Product datasheet for **RG235748**

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: TurboGFP
Symbol: MAP2K1IP1
Synonyms: MAP2K1IP1; MAPBP; MAPKSP1; MP1; PRO0633; Ragulator3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235748 representing NM_001243736.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCGGATGACCTAAAGCGATTCTTGTATAAAAAGTTACCAAGTGTTGAAGGGCTCCATGCCATTGTT
GTGTCAGATAGAGATGGAGTACCTGTTATTAAGAGCATGCTTTGCGACCTGGTTTCTTATCCACTTTT
GCCCTTGAACAGACCAAGGAAGCAAACCTGGACTTTCCAAAAATAAAAGTATCATCTGTTACTATAAC
ACCTACCAGGTGGTTCAATTTAATCGTTACCTTTGGTGGTGAGTTTCATAGCCAGCAGCAGTGCCAAT
ACAGGACTAATTGTCAGCCTAGAAAAGGAACCTGCTCCATTGTTGAAGAAGTGAACAAGTTGTGGAA
GTTTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235748
Blue=ORF Red=Cloning site Green=Tag(s)

```
MADDLKRFLYKKLPSVEGLHAI VVSDRDGVPVIKEHALRPGFLSTFALATDQGSKLGLSKNKSIIICYN
TYQVVFQFNRLPLVVSFIASSANTGLIVSLEKELAPLFEELRQVVEVS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



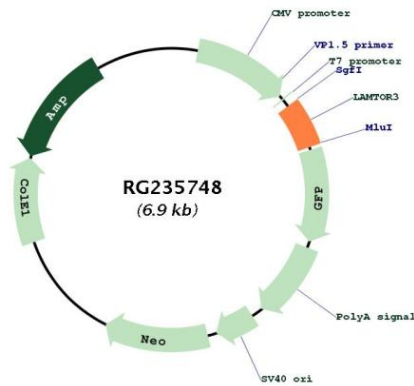
[View online »](#)

Cloning Scheme:


- 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](#)
- 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).
- RefSeq:** [NM_001243736.1](#), [NP_001230665.1](#)
- RefSeq Size:** 4259 bp
- RefSeq ORF:** 354 bp
- Locus ID:** 8649
- UniProt ID:** [Q9UHA4](#)
- 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]

Product images:


Circular map for RG235748