

Product datasheet for **SC333642**

MAP2K1IP1 (LAMTOR3) (NM_001243736) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP2K1IP1 (LAMTOR3) (NM_001243736) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP2K1IP1
Synonyms:	MAP2K1IP1; MAPBP; MAPKSP1; MP1; PRO0633; Ragulator3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333642 representing NM_001243736. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGATGACCTAAAGCGATTCTTGTATAAAAAGTTACCAAGTGTTGAAGGGCTCCATGCCATTGTT
GTGTCAGATAGAGATGGAGTACCTGTTATTAAGAGCATGCTTTGCGACCTGGTTTCTTATCCACTTTT
GCCCTTGAACAGACCAAGGAAGCAAACCTGGACTTTCCAAAAATAAAAGTATCATCTGTTACTATAAC
ACCTACCAGTGGTTCAATTTAATCGTTACCTTTGGTGGTGGTTCATAGCCAGCAGCAGTGCCAAT
ACAGGACTAATTGTCAGCCTAGAAAAGGAACCTGCTCCATTGTTGAAGAACTGAGACAAGTTGTGGAA
GTTTCTTAA
ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001243736
Insert Size:	354 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_001243736.1](#)

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: 12.9 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]

Transcript Variant: This variant (3) uses an alternate splice site in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.