OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC118630

MAP3K10 (NM_002446) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K10 (NM_002446) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP3K10
Synonyms:	MEKK10; MLK2; MST
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_002446 edited
GCGGCCGCGAATTCGGCACGAGGCCTGCCGCCCTCGCCCTCGTCCCCCACCGGCGGACCC
CGGCGGGCATTCGAGAGCCGCGCGGCCAGGCCCTCTTAGCCCTCTGCCGTTTGGGGGGCA
CGGGTGAACCTGCCGCCCCACTCCCACCCCGCCCCGCCCCGCCCGTACAGCCAAATCGGA
AGGGACGAGCCTGCCCTTTGAAAGGGTTTTTTTTCTTGCTCCTGCGGAGGGCGCCCCAGC
CATGGCCCTCAGGAGCTCCCTAGACCCCGCAGGGACTGCCCTCCATCCCGGCCGCCGGGG
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AGGGGCGATCGCGTCCAGGTGCTTTCCCAAGACTGTGCGGTGTCCGGCGACGAGGGCTGG
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GGTGGTGCACTGAGCAGGGTGCTGGCAGGTCGCCGGGTGCCACCTCACGTGCTGGTCAAC
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GTCATCGAACAGTCAGCCCTGTTCCAGATGCCACTGGAGTCCTTCCACTCGCTGCAGGAA
GACTGGAAGCTGGAGATTCAGCACATGTTTGATGACCTTCGGACCAAGGAGAAGGAGCTT

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CGGAGCCGTGAGGAGGAGCTGCTGCGGGCGGCACAGGAGCAGCGCTTCCAGGAGGAGCAG
CTGCGGCGGCGGGAGCAGGAGCTGGCAGAACGTGAGATGGACATCGTGGAACGGGAGCTG
CACCTGCTCATGTGCCAGCTGAGCCAGGAGAAGCCCCGGGTCCGCAAGCGCAAGGGCAAC
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TGCCCACCACCGCCCGCCTGGGCAGCCATGAATGTAGCGCCCCAGGCCCTGCCCCAGCCC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002446 unedited
CCGGTTGCGATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGCCTGCCG
CCCTCGCCCTCGTCCCCCCCGGCGGACCCCGGCGGGCATTCGAGAGCCGCGCGGCCAGGC
CCTCTTAGCCCTCTGCCGTTTGGGGGGCACGGGTGAACCTGCCGCCCCACTCCCACCCCG
CCCCGCCCCGCCCGTACAGCCAAATCGGAAGGGACGAGCCTGCCCTTTGAAAGGGTTTTT
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TGCCCCAGGAGATCCCCTTCCACGAGCTGCAGCTAGAGGAGATCATCGGTGTGGGGGGCT
TTGGCAAGGTCTATCGGGCCCTGTGGCGTGGCGAGGAGGTGGCAGTCAAGGCCGCCCGGC
TGGACCCTGAGAAGGACCCGGCAGTGACAGCGGAGCAGGTGTGCCAGGAAGCCCGGCTCT
TTGGAGCCCTGCAGCACCCCCACATAATTGCCCTTAGGGGGCGCCTGCTNNACCNCCACA
CCTCTGCCTAGTGT

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_002446 unedited
GGGGGAAATTCTGTGTACCGCGCCCCTTACTANGATCGATTTTTCTTTTTTTTTTTTTTT
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TTTTGGGCCAAATCCCCCATGATGCCCTGTCCCTGAATATCCCTGCCCACCCTCCCCCCA
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TGGGCAACCGGGGGAAATCCAAAAGGTCAAAGGGCCAGGGCCATGGCCCGGGGGTTTGGG
GGGGCCCCTGTTTCCCAAACGCCCCATTCAAAGGGTTTCCCCGGTCCCCGGGTTTAAAAA
AAATTCACCCTTGACTTGTGTGGGCCTTAACCCAATTGGGGGGGGTCCTTTTTTAAACTC
TTCACACTCCGGTTCCCCCAGG
```

Restriction Sites: Please inquire

ACCN: NM_002446

Insert Size: 3800 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

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_002446.2, NP_002437.2

RefSeq Size: 3428 bp

RefSeq ORF:	2865 bp
Locus ID:	4294
UniProt ID:	Q02779
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene is a member of the serine/threonine kinase family. This kinase has been shown to activate MAPK8/JNK and MKK4/SEK1, and this kinase itself can be phoshorylated, and thus activated by JNK kinases. This kinase functions preferentially on the JNK signaling pathway, and is reported to be involved in nerve growth factor (NGF) induced neuronal apoptosis. [provided by RefSeq, Jul 2008]