

Product datasheet for **SC310080**

MAP3K12 (NM_006301) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K12 (NM_006301) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP3K12
Synonyms:	DLK; MEKK12; MUK; ZPK; ZPKP1
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006301, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTGCCATGAGACCCGAACACCCTCTCCTTCTTTGGGGGCTTTGTGTCTACC
CTAAGTGAGGCATCCATGCGCAAGCTGGACCCAGACACTTCTGACTGCACTCCCGAGAAG
GACCTGACGCCTACCCATGTCTGCAGCTACATGAGCAGGATGCAGGGGGCCAGGGGA
GCAGTGGGTACCTGAGAGTCGGGCATCCAGAGTTCGAGCTGACGAGGTGCGACTGCAG
TGCCAGAGTGGCAGTGGCTTCCCTTGAGGGCTCTTTGGCTGCCTGCGCCCTGTCTGGACC
ATGATTGGCAAAGCCTACTCCACTGAGCAACAAGCAGCAGGAAGACCTTTGGGAGGTC
CCCTTTGAGGAAATCCTGGACCTGCAGTGGGTGGGCTCAGGGGCCAGGGTGCTGTCTTC
CTGGGGCGCTTCCACGGGAGGAGGTGGCTGTGAAGAAGGTGCGAGACCTCAAAGAAACC
GACATCAAGCACTTGCAGAAAGCTGAAGCACCCCAACATCATCACTTTCAAGGGTGTGTGC
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GTACTGCGGGCTGGCCGCCCTGTACCCCTCCTTACTGGTTGACTGGTCCATGGGCATC
GCTGGTGGCATGAACTACCTGCACCTGCACAAGATTATCCACAGGGATCTCAAGTACCC
AACATGCTAATCACCTACGACGATGTGGTGAAGATCTCAGATTTTGGCACTTCCAAGGAG
CTGAGTGACAAGAGCACCAAGATGTCCTTTGCAGGGACAGTAGCCTGGATGGCCCTGAG
GTGATCCGCAATGAACCTGTGTCTGAGAAGGTGACATCTGGTCTTTGGCGTGGTGCTA
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GGTGTGGGAAGCAACAGTCTCCATCTGCCCCTGCCCTCCAGTTGCCAGATGGTTTCAAG
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CACGCCCTGGACATCAGGGAGCACTATGAAAGGAAGCTGGAGAGAGCCAACAACCTGTAT
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GAGCAAGCTTTAGAGCGGAGGTGCCAGGCCTGCTGAAGCCACACCCCTCCCGGGCCCTC
CTGCATGGAAACACAATGGAGAAGCTTATCAAGAAGAGGAATGTGCCACAGAAGCTGTCA
CCCCATAGCAAAGGCCAGATATCCTCAAGACGGAGTCTTTGCTCCATAAAGTAGATGCA
GCCCTGAGTGGGGTGGGGCTTCTGGGTGCTTAAGGCCCCCCCTCACCAGGACGGAGT
CGCCGTGGCAAGACCCGTACCCTCAAGGCCAGCGCCAAGGGGAGCTGTGGGGACCTGCCT
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CTCCTGCTCCGCAAAATGTCTTTCATCGTCCCCAGACCTGCTGTCAGCAGCACTAGGGTCC
CGGGGCCGGGGGCCACAGGCGGAGCTGGGGATCCTGGCTCACCACCTCCGGCCCGGGGT
GACACCCACCAAGTGAAGGGCTCAGCCCTGGCTCCACCAGCCAGATTACCTGGGGGA
GCCAAAGGGGAACCACCTCCTCCAGTAGGGCTGGTGAAGGTGTGGGGCTTCTGGAACT
GGAAGGGAAGGGACCTCAGGCGGGGAGGAAGCCGGGCTGGTCCCAGCACTTGACCCCA
GCTGCACTGCTGTACAGGGCTGCCGTACCCGAAGTCAGAAACGTGGCATCTCATCGAA
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GATGAGCGCCAGATGAGCGGTCTGATGACATGTGCTCCAGGGCTCAGAAATCCCCTG
GACCCACCTCCTCAGAGGTCATCCCTGGCCCTGAACCCAGCTCCCTGCCATTCCACAC
CAGGAACTTCTCAGAGAGCGGGGCCCTCCCAATTCTGAGGACTCAGACTGTGACAGCACT
GAATTGGACAACCAACAGCGTTGATGCCTTGGGCCCCCAGCTTCCCTCCCTCATGA

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Restriction Sites: Please inquire

ACCN: NM_006301

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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:	NM_006301.2 , NP_006292.2
RefSeq Size:	3365 bp
RefSeq ORF:	2580 bp
Locus ID:	7786
UniProt ID:	Q12852
Cytogenetics:	12q13.13
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway

Gene Summary:

This gene encodes a member of the serine/threonine protein kinase family. This kinase contains a leucine-zipper domain and is predominately expressed in neuronal cells. The phosphorylation state of this kinase in synaptic terminals was shown to be regulated by membrane depolarization via calcineurin. This kinase forms heterodimers with leucine zipper containing transcription factors, such as cAMP responsive element binding protein (CREB) and MYC, and thus may play a regulatory role in PKA or retinoic acid induced neuronal differentiation. Alternatively spliced transcript variants encoding different proteins have been described.[provided by RefSeq, Jul 2010]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to 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.