

Product datasheet for **SC310188**

MEKK3 (MAP3K3) (NM_203351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEKK3 (MAP3K3) (NM_203351) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP3K3
Synonyms:	MAPKKK3; MEKK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310188 representing NM_203351.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGACGAACAGGAGGCATTGAACTCAATCATGAACGATCTGGTGGCCCTCCAGATGAACCGACGTCA
CGGATGCCTGGATATGAGACCATGAAGAACAAGACACAGGTCACTCAAATAGGCAGAAAAACACAAC
AGCAGCAGCTCAGCCCTTCTGAACAGCCACAGTAACAACAAGCTCATGTGCAGGGGCCAGTGAGAAA
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CGGCTGTGAAATATGAAGATGTGGAGCACAAGGTGACAACAGTATTTGGACAACCTCTTGATCTACAT
TACATGAACAATGAGCTCTCCATCTGTGAAAAACCAAGATGATCTTGATAAAGCAATTGACATTTTA
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TCTCCCACTCTGGGTGTCCAGACAGGTGCGGATCAAGGCTTCCAGTCCGAGGGGATATAAATACT
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CCTCCCCCTGGCTATGTTCTGAGCGGCAGCAGCATTGCCCGCAGGGGTCTACACCAGCATCAAC
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TCTGCTGGGAATGTAAGCTGGGGACTTTGGGGCCAGCAAACGCCTGCAGACGATCTGTATGTCGGGG
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GCAGAGTATGAAGCTATGGCCGCATCTTCAAGATTGCCACCCAGCCACCAATCCTCAGCTGCCCTCC
CACATCTCTGAACATGGCCGGGACTTCTGAGGCGATTTTTGTGGAGGCTCGCCAGAGACCTTCAGT
GAGGAGCTGCTCACACACCCTTTCACAGCTCATGTACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM_203351

Insert Size: 1974 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).

OTI Annotation: 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.

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_203351.1</u>
RefSeq Size:	4843 bp
RefSeq ORF:	1974 bp
Locus ID:	4215
UniProt ID:	<u>Q99759</u>
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway
MW:	74.1 kDa
Gene Summary:	<p>This gene product is a 626-amino acid polypeptide that is 96.5% identical to mouse Mekk3. Its catalytic domain is closely related to those of several other kinases, including mouse Mekk2, tobacco NPK, and yeast Ste11. Northern blot analysis revealed a 4.6-kb transcript that appears to be ubiquitously expressed. This protein directly regulates the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by activating SEK and MEK1/2 respectively; it does not regulate the p38 pathway. In cotransfection assays, it enhanced transcription from a nuclear factor kappa-B (NFkB)-dependent reporter gene, consistent with a role in the SAPK pathway. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>