

Product datasheet for **RC216130**

MEKK3 (MAP3K3) (NM_203351) Human Tagged ORF Clone

Product data:

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



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**ORF Nucleotide
Sequence:**

>RC216130 representing NM_203351
 Red=Cloning site Blue=ORF Green=Tags(s)

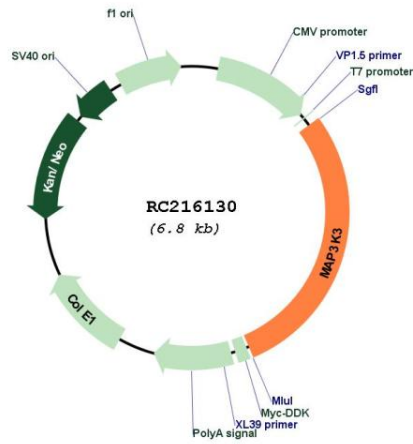
TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAACAGGAGGCATTGAACTCAATCATGAACGATCTGGTGGCCCTCCAGATGAACCGACGTCAAC
 GGATGCCTGGATATGAGACCATGAAGAACAAGACACAGGTCACTCAAATAGGCAGAAAAACACAACAG
 CAGCAGCTCAGCCCTTCTGAACAGCCCCACAGTAAACAACAGCTCATGTGCAGGGGCCAGTGAGAAAAAG
 AAATTTTTGAGTGACGTGAGAATCAAGTTCGAGCACAACGGGAGAGGCGAATTATAGCGTTCAGCCGGC
 CTGTGAAATATGAAGATGTGGAGCACAAGGTGACAACAGTATTTGGACAACCTCTTGATCTACATTACAT
 GAACAATGAGCTCTCCATCCTGCTGAAAAACCAAGATGATCTTGATAAAGCAATTGACATTTTAGATAGA
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 GGCATATGTTCTGAGCGGCAGCAGCACATTGCCCGGCAGGGGTCTACACCAGCATCAACAGTGAGGGGG
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 GAGAACATGGGTCTGGCTGTGCAATACCTGGACCCCGTGGGCGCCTGCGGAGTGCGGACAGCGAGAATG
 CCCTCTGTGTGCAGGAGGGAATGTGCCAACCAAGTCTCCAGTGCCTCCATCAACTGGCGCCGGGAAA
 GCTCCTGGGCCAGGGTGCCTTCGGCAGGGTCTATTTGTGCTATGACGTGGACACGGGACGTGAACCTGCT
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 TCCAGTTGCTAAAGAACTTGACGATGAGCGCATCGTGCAGTACTATGGCTGTCTGCGGGACCGCGCTGA
 GAAGACCCTGACCATCTTCATGGAGTACATGCCAGGGGGCTCGGTGAAAGACCAGTTGAAGGCTTACGGT
 GCTCTGACAGAGAGCGTGACCCGAAAGTACACGCGGCAGATCCTGGAGGGCATGCTCTACCTGCACAGCA
 ACATGATTGTTACCCGGGACATTAAGGGAGCCAACATCCTCCGAGACTCTGCTGGGAATGTAAGCTGGG
 GGACTTTGGGGCCAGCAAACGCCTGCAGACGATCTGTATGTGGGGACGGGCATGCGCTCCGTCCTGAGCC
 ACACCCTACTGGATGAGCCCTGAGGTGATCAGCGGCGAGGGCTATGGAAGGAAAGCAGACGTGTGGAGCC
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 CTTCAAGATTGCCACCCAGCCACCAATCCTCAGCTGCCCTCCACATCTCTGAACATGGCCGGGACTTC
 CTGAGGGCATTGTTGTGGAGGCTCGCCAGAGACCTTCAGCTGAGGAGCTGCTCACACACCACTTTGCAC
 AGCTCATGTAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_203351.3
RefSeq Size:	4843 bp
RefSeq ORF:	1974 bp
Locus ID:	4215
UniProt ID:	Q99759
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway
MW:	73.9 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>

Product images:



Circular map for RC216130