

Product datasheet for **SC115980**

MEKK2 (MAP3K2) (NM_006609) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEKK2 (MAP3K2) (NM_006609) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEKK2
Synonyms:	MEKK2; MEKK2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_006609 edited
 ATGGATGATCAGCAAGCTTTGAACTCAATCATGCAAGATTTGGCTGTCCTTCATAAGGCC
 AGTCGACCAGCATTATCCTTGCAGGAAACCAGAAAAGCAAAATCTTCATCACCAAAAAA
 CAGAAATGATGTCGAGTCAAATTTGAACATAGAGGAGAAAAAGAATCCTTCAGTTCCCC
 AGACCAGTTAACTGGAAGATCTGAGATCTAAAGCTAAAATTGCCTTTGGACAGTCTATG
 GATCTACATTATACCAATAACGAGTTGGTAATCCATTAACACTCAAGATGACTTGGAC
 AAAGCTGTGGAAGTCTGGATCGTAGTATTCATATGAAGAGCCTCAAGATATTACTTGTG
 ATAAATGGAAGTACACAGGCTACTAATTTAGAACCATTGCCATCACTAGAAGATTTGGAT
 AATACAGTATTTGGAGCAGAGAGAAAAACGGCTATCTATAATAGGTCCTACTAGTAGA
 GATAGAAGTTCTCCTCCCCAGGTTACATTCCAGATGAATTACACCAGGTTGCCCGAAT
 GGGTCATTCACTAGTATCAACAGTGAAGGAGAGTTCATTCCAGAGAGCATGGACCAATG
 CTGGATCCATTATCTTTAAGCAGCCCTGAAAAATCTGGCTCAGGAAGTTGTCCATCACTT
 GATAGTCTTTGGATGGAGAGAGCTATCCAAAATCACGAATGCCTAGGGCTCAGAGCTAC
 CCAGATAATCATCAGGAATTTTCAGACTATGATAACCCTATCTTTGAGAAATTTGAAAA
 GGAGGAACATATCCAAGAAGGTATCATGTTTCATATCATCATCAAGAGTATAATGATGGT
 CGTAAAACCTTTTCCAAGAGCTAGAAGGACCCAGGGGACCAGCTTACGGTCTCCTGTGAGT
 TTCAGTCTACTGATCATTCTTAAGCACTAGTAGTGAAGCAGTATCTTTACCCAGAG
 TATGATGATAGTCGAATAAGAAGAAGGGGAAGTGACATAGACAATCCTACTTTGACCGTA
 ATGGACATCAGCCACCCAGCCGTTACCTCGAGCTCCGACCACTGGAGATTGGGCAA
 CTGCTTGGCCAAGGAGCCTTTGGAAGGGTCTACCTCTGTTATGATGTTGATACAGGAAGA
 GAATTGGCTGTTAAGCAAGTTCATTTGACCCGATAGTCTGAGACCAGCAAGGAAGTA
 AATGCATTTGAGTGTGAAATTCAGTTGCTGAAAAACTTGCTACATGAGCGAATTTGTCAG
 TATTATGGCTGTTTGAGGGATCCCGAGAAAAAACACTTCCATATTTATGGAATATATG
 CCAGGGGTTCAATTAAGGACCAATTAAGCATATGGCGCTTCTACTGAGAATGTGACT
 AGGAAATACACCCGTGAGATTCTGGAGGGTGTCCATTATTTGCACAGTAATATGATTGTC
 CATAGAGATATCAAAGCGCAAATATCCTGCGAGATTCAACAGGCAACGTCAAACTAGGA
 GATTTTGGGGCCAGCAAACGGCTTCAGACCATCTGTCTCTCAGGGACAGGAATGAAGTCT
 GTCACGGGCACACCATACTGGATGAGCCCTGAAGTATCAGTGGAGAAGGCTATGGAAGA
 AAAGCAGACATCTGGAGTGTTCATGTACTGTGGTAGAAATGCTAACTGAAAAGCCGCT
 TGGGCTGAATTTGAAGCAATGGCTGCCATCTTTAAAATCGCCACTCAGCCAACAAACCA
 AAGCTGCCACCTCATGTCTCAGACTATACTCGAGATTTCTCAAACGGATTTTGTAGAG
 GCCAAACTGAGACCTTCAGCTGATGAACCTTAAGGCACATGTTTGTGCATTATCACTAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006609 unedited
 CGCGTCAGATTTGTATACGACTCACTATAGCGGCCGCGNAATTCGCACGAGGGCCTGA
 CGAGGGTGCCGCGCCGCTGGGTGCAGCGTTCGGGGTTGCACGGCCCGCGGCGGCGACG
 AAAACAACGACCAGGACGCTCGGGCCCTGTCCGACAGTTCGCCACTCCCGCCTTCT
 CCGGTCTCTAGCGACGCGGGCCCGCGGCTTCTCCTTTCTGCCAGTTCGCGGGGCT
 CGGGGTTGCAGCGGCTAGAAGCGCCGAGGAGCGCCAGGAGACCCGCGCGGCTGCGAGGA
 TTCACGCGCCCGCACCCCGCCCGGCGGCTTCATGTGAAAGAGGGACGGGCTGGCC
 CCAAGGCCCGCGCCGACTCCTCGCGCGCCCTCCGGTCCCGGGGGCCCTGCGGACGCC
 CCCGACCTGGGGCCGCGGTGACAGGCGCGCTGGGGCGGAGGGGCGGGCTCGGCGGGGGC
 GGCCCTCCTTGGGCTGCGGCTCTACGTCCCTGCGGAGCAGCCGGCCATAAAGAATG
 CTGATGGGAGAACCATTTTCTAATTTTCAAATTTGTTGAGCTGTTTGCATAATGGATGA
 TCAGCAAGCTTTGAACTCAATCATGCAAGATTTGGCTGTCCTTCATAAGGCCAGTCGACC
 AGCATTATCCTTGCAGGAAACCAGAAAAGCAAAATCTTCATCACCAAAAAACAGAAATGA
 TGTCAGTCAAATTTGAACATAGAGGAGAAAAAGAATCCTTCAGTTCCCCAGACCAGT
 TAACTGGAAGATCTGAGATCTAAAGCTAANNATGCCTTTGGACAGTCTATGGATCTACA
 TTATACCAATAACGAGTTGGTAATCCATTAACACTCAAGATGACTGGNACAAAGCTGT
 GGAAGTGTGGATCGTAGTATTCATATGAAGAGCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006609 unedited TGGACCGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTGGCCAAATCATGA ATTTTAAGGAAAGAATATATAGAGATGGCTGAGTTCAAAGGCTCAGTGTCAAATTCAG TTTGTTCCTAAAATGAAGAGTTACCTATGTGGGTGCAATATGCAGCTGGTAAAGTGATTG CTATTTGCTGTTTGTGAGATTATCCACCTTGACTTAAAGCAGCAGTATCTGATCTTGT AAAATCCTCAATTTGCATTACATCACTTTCTCTTTGCGACTTCCTTTTCTTTCTTGCATT TACTGCTTTGTAATAGCTGTTTTTCAGTTTATAACTGGGACTGATCTTTACATCAGGGTT TCTCAGCCTCAGCACTTCTGACATTTTGGGAGGGTAATTCTTTGAGGCTGCTTTCCTTG TGTATTATAATCTATTTAGCAACATCCCTGGCCTCTACCCAATTCATGCTACTAGTATCC CTCCAATTGTGACAACCGGAAATGTCTCTAAGAATTGCCAAATGCCTAGTGAAATCATCC TCGCTCCACTTTTGGCAACCACTGTTTCACATGATACCTGTTTTTTTTGAGGAGCTTGTAGT ATTCTGTGATCCTAAGAACAAGGGTTTCATCTCCTGACATAACACATAAACATTACTAAT TGAACCTCTCGCTCCTAAGGGATGTTACCTATGGGGAATCAGGAGCTGGAATAGAAGAT GGTATACATGATTCTGATTATTTCTNCATTCTTTAATTCTGGGACGTNCCCCTCAAGTA AAACAAAACAAAAGTGTAAAATACACTAAACACCTAATTTTTCTTCATTATTTCTATT GACTGGTAAATGAGNCTCCNCTACTGCTCAACATTTGATAAGATGATGNCCTTTTGTCTC TATTTCTATTTGCTCACACTTGACTTTAAATAAGGCTCTNCGCGNGTGGTGGTGAGGGGG GGTTTTTAGCAGAAGCTTCCCTCAGCTTACGATCCAGTACGGGATCAT
Restriction Sites:	NotI-NotI
ACCN:	NM_006609
Insert Size:	3780 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).
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_006609.2</u> , <u>NP_006600.2</u>
RefSeq Size:	3336 bp
RefSeq ORF:	1863 bp
Locus ID:	10746
UniProt ID:	<u>Q9Y2U5</u>
Cytogenetics:	2q14.3
Domains:	PB1, pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Gap junction, GnRH signaling pathway, MAPK signaling pathway

Gene Summary: The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase preferentially activates other kinases involved in the MAP kinase signaling pathway. This kinase has been shown to directly phosphorylate and activate I kappa B kinases, and thus plays a role in NF-kappa B signaling pathway. This kinase has also been found to bind and activate protein kinase C-related kinase 2, which suggests its involvement in a regulated signaling process. [provided by RefSeq, Jul 2008]