

Product datasheet for **SC309544**

MEK7 (MAP2K7) (NM_145185) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MEK7 (MAP2K7) (NM_145185) Human Untagged Clone
Tag: Tag Free
Symbol: MEK7
Synonyms: JNKK2; MAPKK7; MEK; MEK 7; MKK7; PRKMK7; SAPKK-4; SAPKK4
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_145185 edited
GGTACCGATGGCGCGTCTCCCTGGAACAGAAGCTGTCCCGCTGGAAGCAAAGCTGAA
GCAGGAGAACCAGGAGGCCCGGAGGATCGACCTCAACTGGATATCAGCCCCAGCG
GCCAGGCCACCTGCAGCTCCCGCTGGCCAACGATGGGGGAGCCGCTCGCCATCCTC
AGAGAGCTCCCCGAGCACCCACGCCCGCCCGCCGCCACATGTGGGGTCCC
GTCAACCTGTTACACCCCGCAGCATGGAGAGCATTGAGATTGACCAGAAGCTGCAGGA
GATCATGAAGCAGACGGGTACCTGACCATCGGGGGCCAGCGCTACCAGGCAGAAATCAA
CGACCTGGAGAACTTGGGCGAGATGGGCAGCGCACCTGCGGCCAGGTGTGAAGATGCG
CTTCCGGAAGACCGCCACGTCATTGCCGTTAAGCAAATGCGGCGCTCCGGGAACAAGGA
GGAGAACAAGCGCATCCTCATGGACCTGGATGTGGTGCTGAAGAGCCACGACTGCCCTA
CATCGTGCAGTGCTTTGGGACGTTTCATACCAACACGGACGTCCTCATCGCCATGGAGCT
CATGGGCACCTGCGCTGAGAAGCTCAAGAAGCGGATGCAGGGCCCCATCCCCGAGCGCAT
TCTGGGCAAGATGACAGTGGCGATTGTGAAGGCGCTGTACTACCTGAAGGAGAAGCACGG
TGTATCCACCGCAGCTCAAGCCCTCCAACATCCTGCTGGACGAGCGGGCCAGATCAA
GCTCTGCGACTTCGGCATCAGCGGCCGCTGGTGGACTCCAAAGCCAAGACGCGGAGCGC
CGGCTGTGCCCTACATGGCACCCGAGCGCATTGACCCCCAGACCCCAAGCCGGA
CTATGACATCCGGGCCGACGTATGGAGCCTGGGCATCTCGTTGGTGGAGCTGGCAACAGG
ACAGTTTTCCCTACAAGAACTGAAGACGGACTTTGAGGTCCTACCAAAGTCCTACAGGA
AGAGCCCCGCTTCTGCCCGACACATGGGCTTCTCGGGGACTTCCAGTCCCTTCGTC
AGACTGCCTTAAAGATCACAGGAAGAGACCAAGTATAATAAGCTACTTGAACACAG
CTTCATCAAGCGCTACGAGACGCTGGAGGTGGAGTGGCGTCTGGTTCAAGGATGTCAT
GGCGAAGACTGAGTCACCGCGGACTAGCGGCGTCTGAGCCAGCCCCACCTGCCCTTCT
CAGGTAGCTGCTTGGTCTAGA

Restriction Sites: Please inquire
ACCN: NM_145185



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Insert Size:	1300 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 clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_145185.2.
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:	NM_145185.2 , NP_660186.1
RefSeq Size:	3386 bp
RefSeq ORF:	1260 bp
Locus ID:	5609
UniProt ID:	O14733
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform 3, which lacks an internal segment and is shorter, compared to isoform 1.</p>