

Product datasheet for **SC331687**

MEK5 (MAP2K5) (NM_001206804) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MEK5 (MAP2K5) (NM_001206804) Human Untagged Clone
Tag: Tag Free
Symbol: MEK5
Synonyms: HsT17454; MAPKK5; MEK5; PRKMK5
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331687 representing NM_001206804.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGATGGAGGGTCACTTTCCCCAGAGCGATGTGATAGGCCAGGTTCTGCCTGAAGCAACAACTACAGCA
TTTGAATATGAAGATGAAGATGGTATCGAATTACAGTGAGAAGTGATGAGGAAATGAAGGCAATGCTG
TCATATTATTATCCACAGTAATGGAACAGCAAGTAAATGGACAGTTAATAGAGCCTCTGCAGATATTT
CCAAGAGCCTGCAAGCCTCTGGGGAACGGAACATACATGGCCTGAAGGTGAATACTCGGGCCGGACCC
TCTCAACACAGCAGCCCAGCAGTCTCAGATTCACCTCCAAGCAATAGCTTAAAGAAGTCTTCTGCTGAA
CTGAAAAAAATACTAGCCAATGGCCAGATGAATGAACAAGACATACGATATCGGGACACTCTTGGTCAT
GGCAACGGAGGCACAGTCTACAAAGCATATCATGTCCCGAGTGGGAAAATATTAGCTGTAAGGTCATA
CTACTAGATATTACACTGGAACCTCAGAAGCAAATATGTCTGAATTGGAATCTTTATAAGTGCGAT
TCATCATATATCATTGGATTTTATGGAGCATTTTTGTAGAAAACAGGATTTCAATATGTACAGAATTC
ATGGATGGGGGATCTTTGGATGTATATAGGAAAATGCCAGAACATGTCCTTGGAGAATTGCAGTAGCA
GTTGTTAAAGGCCTTACTTATTTGTGGAGTTTAAAGATTTACATAGAGACGTGAAGCCCTCCAATATG
CTAGTAAACACAAGAGGACAGGTTAAGCTGTGTGATTTGGAGTTAGCACTCAGCTGGTGAATTCATA
GCCAAGACGTATGTTGGAACAAATGCTTATATGGCGCCTGAAAGGATTTGAGGGAGCAGTATGGAAT
CATTCTGATGTCTGGAGCTTAGGAATCTTTTTATGGAGCTTCTTGGGAGGTTCCATATCCTCAG
ATTCAGAAAAACAGGGATCTTTAATGCCTCTCCAGCTTCTGCAGTGCATTGTTGATGAGGATTCGCC
GTCCTTCCAGTTGGAGAGTTCTCGGAGCCATTTGTACATTTCACTCACTCAGTGTATGCGAAAACAGCCA
AAAGAAAGGCCAGCACCTGAAGAATTGATGGGCCACCCGTTTCATCGTGCAGTTCAATGATGGAAATGCC
GCCGTGGTGTCCATGTGGGTGTGCCGGGCGCTGGAGGAGAGGCGGAGCCAGCAGGGGCCCCCGTGA
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Restriction Sites: SgfI-MluI
ACCN: NM_001206804
Insert Size: 1239 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).



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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_001206804.1</u>
RefSeq Size:	1801 bp
RefSeq ORF:	1239 bp
Locus ID:	5607
UniProt ID:	<u>Q13163</u>
Cytogenetics:	15q23
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Gap junction, MAPK signaling pathway, Neurotrophin signaling pathway
MW:	46.1 kDa
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 interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (C) has a shorter and distinct N-terminus compared to isoform A.</p>