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Product datasheet for SC109631

MEK5 (MAP2K5) (NM_145160) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEK5 (MAP2K5) (NM_145160) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEK5
Synonyms:	HsT17454; MAPKK5; MEK5; PRKMK5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF sequence for NM_145160 edited
ATGTGAGCCTCTTTAACCTGTAATGCTGTGGCTAGCCCTTGGCCCCTTTCCTGCCATGGA
GAACCAGGTGCTGGTAATTCGCATCAAGATCCCAAATAGTGGGCGCGGTGGACTGGACAG
TGCACTCCGGGCCGCAGTTACTCTTCAGGGATGTGCTGGATGTGATAGGCCAGGTTCTGC
CTGAAGCAACAACTACAGCATTTGAATATGAAGATGAAGATGGTGATCGAATTACAGTGA
GAAGTGATGAGGAAATGAAGGCAATGCTGTCATATTATTATTCCACAGTAATGGAACAGC
AAGTAAATGGACAGTTAATAGAGCCTCTGCAGATATTTCCAAGAGCCTGCAAGCCTCCTG
GGGAACGGAACATACATGGCCTGAAGGTGAATACTCGGGCCGGACCCTCTCAACACAGCA
GCCCAGCAGTCTCAGATTCACTTCCAAGCAATAGCTTAAAGAAGTCTTCTGCTGAACTGA
AAAAAATACTAGCCAATGGCCAGATGAATGAACAAGACATACGATATCGGGACACTCTTG
GTCATGGCAACGGAGGCACAGTCTACAAAGCATATCATGTCCCGAGTGGGAAAATATTAG
CTGTAAAGGTCATACTACTAGATATTACACTGGAACTTCAGAAGCAAATTATGTCTGAAT
TGGAAATTCTTTATAAGTGCGATTCATCATATATCATTGGATTTTATGGAGCATTTTTTG
TAGAAAACAGGATTTCAATATGTACAGAATTCATGGATGGGGGATCTTTGGATGTATATA
GGAAAATGCCAGAACATGTCCTTGGAAGAATTGCAGTAGCAGTTGTTAAAGGCCTTACTT
ATTTGTGGAGTTTAAAGATTTTACATAGAGACGTGAAGCCCTCCAATATGCTAGTAAACA
CAAGAGGACAGGTTAAGCTGTGTGATTTTGGAGTTAGCACTCAGCTGGTGAATTCTATAG
CCAAGACGTATGTTGGAACAAATGCTTATATGGCGCCTGAAAGGATTTCAGGGGAGCAGT
ATGGAATTCATTCTGATGTCTGGAGCTTAGGAATCTCTTTTATGGAGCTTGCTCTTGGGA
GGTTTCCATATCCTCAGATTCAGAAAAACCAGGGATCTTTAATGCCTCTCCAGCTTCTGC
AGTGCATTGTTGATGAGGATTCGCCCGTCCTTCCAGTTGGAGAGTTCTCGGAGCCATTTG
TACATTTCATCACTCAGTGTATGCGAAAACAGCCAAAAGAAAGGCCAGCACCTGAAGAAT
TGATGGGCCACCCGTTCATCGTGCAGTTCAATGATGGAAATGCCGCCGTGGTGTCCATGT
GGGTGTGCCGGGCGCTGGAGGAGAGGCGGAGCCAGCAGGGGCCCCCGTGAGGCTGCCGCA
GGGCACTGAAAGCCCAGGACCAGTAACCAAGGAGAACAACCCACCCGTCGCCCTTCTCCG
TATGCTGCCTGCGCCAGAAGAGCTTTGCTGGGCCCTGGCTTCCCTGCCCTCGCCTTCACC
TCTGTCAGCA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145160 unedited
NCGTCAAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGTCGCCGCC
GCCGCAGCCGCCGCCGGTCCGCGCGGCCTCGGGTGGCCGGAGCTCAGCCTGCGCGCGCCG
CGCCCTGTGTCTCCGGGTGGGGCAGAAGACTCGCCCCTTGAACCTCCCGCGGGGACTCTC
CGTGGTGTGGCGGCCCTGGGGCTCTTTCTTAATAGCCCCGGACTGAGTCCCCTCCAGTCG
AGGACCCTCTCCTAGTCCACTGACGAGCGGTGGACACCTGCCGCTGTATCTCCCCCAAAC
CGAGTCCTTGCCCTGCTGCCTCCTCATACCCACACGGCGGCAGAGACCTTCACCATAGCG
TTCGCTCAACTCCAGAACCTTCCGACCTCCGCTAGTTCCTGCGGGCCTTTGCCCGCTTCC
CGGTGCACCCTCCCCGGGAGACACCTCAGACCCCCGACAGCCTGGGCAGGCTCGGTGCCT
GCGGGTGCGTTCCTGATCACCCCTCCCCTCTTCCCTCCCCCTCATCCTCCATTCCCTTGT
TTTCACCCTCTGTCCTCTGCCCGTCACTCCCCTTGTCACCTCTTGGAGCCCCCTCCTAAC
CAGCGGCCAGTGGGTTTCCCATACCCCAGGATGTGAGCCTCTTTAACCTGTAATGCTGTG
GCTAGCCCTTGGCCCCTTTCCTGCCATGGAGAACCAGGTGCTGGTAATTCGCATCAAGAT
CCCAAATAGTGGGCGCGGTGGACTGGACAGTGCACTCCGGGCCGCAGTTACTCTTCAGGG
ATGTGCTGGATGTGATGGGCCAGGTTCTGCCTGAAAGCACACTACAGCATTTGAATATGA
AATAGAGATGGTGATCGAATACAGGGAAAGTGATGAGGGAATGAGGCCATGCTGTCTATT
ATATTCCCAGTATGGACAGCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145160 unedited
TTTTTTTTTTTTTTTGTCACAAAGCATTAATACTTTTATTCCCATCAGTGATGCTGACGG
GCCTGACCCTTTATAGAGAAAAACATTAGGAAAACAGAAGTGGGCAGGGACCCTGGGAGC
CTCCATTCTCAATGCCCCACCCTTTACCTCTCTGCCAGTGTCAGCGCCTTCAAACCAGAA
GGTATGGGGATGGCCTGGTGGGGTGGGCCACACATGGGGCTCCCCAGGCAAGGCCACCTG
CTGACAGAGGTGAAGGCGAGGGCAGGGAAGCCAGGGCCCAGCAAAGCTCTTCTGGCGCAG
GCAGCATACGGAGAAGGGCGACGGGTGGGTTGTTCTCCTTGGTTACTGGTCCTGGGCTTT
CAGTGCCCTGCGGCAGCCTCACGGGGGCCCCTGCTGGCTCCGCCTCTCCTCCAGCGCCCG
GCACACCCACATGGACACCACGGCGGCATTTCCATCATTGAACTGCACGATGAACGGGTG
GCCCATCAATTCTTCAGGTGCTGGCCTTTCTTTTGGCTGTTTTCGCATACACTGAGTGAT
GAAATGTACAAATGGCTCCGAGAACTCTCCAACTGGAAGGACGGGCGAATCCTCATCAAC
AATGCACTGCAGAAGCTGGAGAGGCATTAAAGATCCCTGGTTTTTCTGAATCTGAGGATA
TGGAAACCTN

Restriction Sites: NotI-NotI

ACCN: NM_145160

Insert Size: 2300 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:
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_145160.1, NP_660143.1
RefSeq Size:	2381 bp
RefSeq ORF:	1347 bp
Locus ID:	5607
UniProt ID:	Q13163
Cytogenetics:	15q23
Domains:	PB1, pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Gap junction, MAPK signaling pathway, Neurotrophin signaling pathway
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (A).