

Product datasheet for SC118424

MEK1 (MAP2K1) (NM_002755) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEK1 (MAP2K1) (NM_002755) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEK1
Synonyms:	CFC3; MAPKK1; MEK1; MEL; MKK1; PRKMK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002755 edited
 ATGCCCAAGAAGAAGCCGACGCCATCCAGCTGAACCCGGCCCCGACGGCTCTGCAGTT
 AACGGGACCAGCTCTGCGGAGACCAACTTGGAGGCCTTGACAGAAGAAGCTGGAGGAGCTA
 GAGCTTGATGAGCAGCAGCGAAAAGCGCCTTGAGGCCTTTCTTACCCAGAAGCAGAAGGTG
 GGAGAAGTGAAGGATGACGACTTTGAGAAGATCAGTGAGCTGGGGCTGGCAATGGCGGT
 GTGGTGTCAAGGTCTCCACAAGTCTTCTGGCCTGGTCATGGCCAGAAAGCTAATTCAT
 CTGGAGATCAAACCCGCAATCCGGAACCAGATCATAAGGGAGCTGCAGGTTCTGCATGAG
 TGCAACTCTCCGTACATCGTGGGCTTCTATGGTGCCTTACAGCGATGGCGAGATCAGT
 ATCTGCATGGAGCACATGGATGGAGTTCTCTGGATCAAGTCTGAAGAAAGCTGGAAGA
 ATCTCTGAACAAATTTTAGGAAAAGTTAGCATTGCTGTAATAAAAAGCCTGACATATCTG
 AGGGAGAAGCACAAAGATCATGCACAGAGATGTCAAGCCCTCCAACATCCTAGTCAACTCC
 CGTGGGGAGATCAAGCTCTGTGACTTTGGGGTCAAGCGGGCAGCTCATCGACTCCATGGCC
 AACTCCTTCGTGGGCACAAGGTCTACATGTCCGAGAAAAGACTCCAGGGGACTCATTAC
 TCTGTGCAGTCAGACATCTGGAGCATGGGACTGTCTCTGGTAGAGATGGCGGTTGGGAGG
 TATCCCATCCCTCCTCCAGATGCCAAGGAGCTGGAGCTGATGTTGGGTGCCAGGTGGAA
 GGAGATGGCGGCTGAGACCCACCCAGGCCAAGGACCCCGGGAGGCCCTTAGCTCATAC
 GGAATGGACAGCCGACCTCCCATGGCAATTTTGGATTGTTGGATTACATAGTCAACGAG
 CCTCCTCCAAAAGTCCCCAGTGGAGTGTTCAGTCTGGAATTTCAAGATTTTGTGAATAAA
 TGCTTAATAAAAAACCCCGCAGAGAGAGCAGATTTGAAGCAACTCATGGTTCATGCTTTT
 ATCAAGAGATCTGATGCTGAGGAAGTGGATTTTGCAGGTTGGCTCTGCTCCACCATCGGC
 CTTAACCAGCCCAGCACACCAACCCATGCTGCTGGCGTCTAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002755 unedited
 TCCCGTGGCCTTGTCTATATAAGCAGTTCTCGTTTAGTGAACCGNCAGAATTTCCGTTAT
 ACGACTCACTATAGGGCGGCCCGGAATTCGGCACGAGGGTTGAGAGAGAGAGAGGAAGGG
 AATCCCGGGCTGCCGAACCGCACGTTTCAGCCCGCTCCGCTCCTGCAAGGCAGCCATTTCGC
 CTCGCTGCGCGATTCCGAGTCTGGGCGGGTGGGGCGGGGTCCACTGAGACCGCTACC
 GGCCCCCTCGGCGCTGACGGGACCGCGGGGCGCACCCGCTGAAGGCAGCCCCGGGGCCC
 GCGGCCCGGACTTGGTCTGCGCAGCGGGCGGGGCGAGCGCAGCGGGAGGAAGCGAGAG
 GTGCTGCCCTCCCCCGGAGTTGGAAGCGGTTACCCGGGTCCAAAATGCCCAAGAAGAA
 GCCGACGCCCATCCAGCTGAACCCGGCCCCGACGGCTCTGCAGTTAACGGGACCAGCTC
 TGCAGGAGACCACTTGGAGGCCTTGAGAGAAAAGCTGGAGGAGCTAGAGCTTGATGAGCA
 GCAGCGAAAGCGCCTTGAGGCCTTTCTTACCCAGAAGCAGAAAAGTGGGAGAACTGAAGGA
 TGACGACTTTGAGAAGATCAGCGAGCTGGGGCTGGCAATGGCGGCGTGGTGTCAAGGT
 CTCCACAAGTCTTCTGGCCTGGTCATGGCCAGAAAAGCTAATTCATCTGGAGATCAAACC
 CGCATCCGGAACCGATCCATAAGGAACTGCAGGTTCTGCATGATTGCAACTCTCCCGACA
 TCGTGGGCTTCTATGGTTCGTTCTACAGCGATGGCGAGATCAGTATCTGCATGGAGCACA
 TGGATGGAAGGTTCCCTGGATCAAGTCCCGGAAGAAGCCGGCAAGAATTCTGGACAATA
 TTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002755 unedited
 NNGAATTCTTGNACCGCGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTAGCTTTC
 ATCCTTTTTTTTTTATTTTATAGTATATTTATTAGAATAAGAGATTAGATTTGTTAAACA
 TCTAGGTTAAAATGGTTAAAAGGATTTTCATACAATTTTAGGCACTATACAGTTGTTTA
 CAACAGCATTGGTACTTGGATATGGGAAAGATAAATCCGACATTTTAATATCTTGATCA
 ATTTGTGACATTCAAAATAATTCCATTTAAGAAACATTAATCAAACTTAAAGAGACATA
 CCACTAAGTATCCACACAGTATACTGAAAATAAATATAGAAATACAACCAAGTCTAC
 AGATCACACAGTAGACAGACTGGTGAAGCCCCAGCTATCATGGCAGTGAAGGGCTCTGG
 CTAGATTTGGATGTCAACTGCTGAGTTCTACATGAAAAGCAAATAATAATAATAAAATAA
 CATGATGTACACTCTCTGATGCTATTTTCATAGCAGCAAAGCATGCTTCACATGCAGTG
 CCTGTGAAGGATCTCACAAGGCTCCCTCCTAGAGAGAAAGTATGCCAGCAAGAATAAAG
 TACCACCAATGTCAAAGAATCCCGAAAATACAGGCAGACAGCCAGTCATGGAGCAGGAA
 CAGCAGTGAATTTGTAAGAATGACTACCCACATTCACCAAAATTTCACTGTAATTCAGCC
 TGGCACAGGTTTTGATCATCAGCATACACACAAAATAGCCCCAAGCACAAAGCCAATCCAC
 TTANGGGAACCCATAATAGTATAAGAATAAAGACCAGTATATTAATAAATGACAAGAGTNG
 AAATCTGGCACATGCTGNGTTCTTCATTCTTTGNACAGTGAATGCACATTCTGACAG
 ANACAGGCATGGNAANNGAGCCCNANAGCGN

Restriction Sites:

NotI-NotI

ACCN:

NM_002755

Insert Size:

2550 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:	NM_002755.2 , NP_002746.1
RefSeq Size:	2222 bp
RefSeq ORF:	1182 bp
Locus ID:	5604
UniProt ID:	Q02750
Cytogenetics:	15q22.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008]</p>