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Product datasheet for MC219673

Map3k9 (NM_177395) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k9 (NM_177395) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Map3k9
Synonyms:	E130314H24Rik; Mlk1; Prke1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC219673 representing NM_177395
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCCTCCAGATCGCTTCTCGGCTGCCTGGCGAGTGCCACTGCCGCCCCGCCGGGGGACGATGCCA
CGGGCGCTGGGGCCGAAGAGGAGGAGGACGAGGAGGAGGCGGCGGCCGAGCTGGGATCTCACGCCGCGCT
GCCCTACTGGACGGCTGTGTTCGAGTACGAGGCGGCGGGCGAGGACGAGCTGACCCTGCGGCTGGGCGAT
GTGGTAGAGGTGCTGTCCAAGGACTCGCAGGTGTCCGGCGATGAGGGCTGGTGGACCGGACAGCTGAACC
AGCGGGTGGGCATCTTCCCCAGCAACTACGTGACCCCGCGTAGCGCCTTCTCCAGCCGCTGCCAGCCGGG
CGCCGAGGACCCCAGCTGCTACCCGCCCATTCAGCTGTTAGAGATTGATTTTGCGGAGCTAACCCTGGAG
GAGATCATCGGCATTGGGGGCTTTGGGAAAGTTTATCGTGCTTTCTGGGCGGGCGATGAGGTGGCCGTGA
AGGCAGCTCGTCACGACCCTGATGAGGACATCAGCCAGACCATAGAGAACGTTCGCCAAGAGGCCAAGCT
CTTTGCCATGCTGAAGCACCCGAACATCATTGCGCTCAGAGGGGTGTGCCTGAAGGAACCCAACCTCTGC
TTGGTCATGGAGTTTGCTCGTGGAGGGCCTCTGAACAGAGTATTGTCTGGGAAGAGGATTCCCCCGGACA
TCCTGGTGAACTGGGCCGTGCAGATCGCCAGAGGGATGAACTATCTACATGATGAGGCGATCGTACCCAT
CATCCACCGAGACCTTAAGTCCAGCAACATATTGATCCTGCAGAAAGTGGAGAATGGAGACCTGAGTAAC
AAGATTCTGAAGATCACCGACTTTGGGCTGGCGCGGGAATGGCACCGGACCACCAAGATGAGTGCGGCGG
GAACATACGCTTGGATGGCACCTGAAGTCATCCGTGCTTCCATGTTTTCCAAAGGCAGCGATGTGTGGAG
CTACGGTGTACTGCTTTGGGAGCTGTTGACTGGCGAGGTGCCCTTCCGGGGCATTGATGGCTTAGCAGTG
GCTTACGGTGTGGCCATGAACAAACTCGCCCTTCCTATCCCCTCTACATGTCCAGAGCCTTTTGCCAAAC
TCATGGAAGACTGCTGGAATCCCGACCCCCACTCGCGCCCATCTTTCACGAGTATCCTGGACCAGCTAAC
GACTATAGAGGAGTCCGGTTTCTTTGAGATGCCCAAGGACTCCTTCCACTGCCTGCAGGACGACTGGAAA
CATGAGATTCAGGAGATGTTTGACCAACTCAGGGCCAAAGAAAAGGAGCTCCGAACCTGGGAAGAGGAGC
TGACCCGGGCTGCGCTCCAGCAGAAGAACCAGGAGGAGCTGCTCCGGCGTAGGGAGCAGGAGCTGGCGGA
GCGGGAGATCGACATCCTGGAGCGAGAGCTCAATATCATCATCCACCAGCTGTGCCAGGAAAAGCCCCGG
GTGAAGAAACGCAAGGGCAAGTTCAGGAAGAGCCGGCTGAAGCTCAAGGACGGCAACCGCATCAGCCTCC
CCTCCGATTTCCAGCACAAGTTCACGGTGCAGGCCTCCCCGACCATGGATAAAAGGAAGAGTCTGATCAG
CAACCGGTCGAGTCCTCCTGCAAGCCCCACCATCATCCCTCGCCTTCGAGCCATCCAGTTGACACCTGGT
GAAAGCAGTAAAACCTGGGGCCGGAGCTCAGTTGTTCCAAAAGAGGAAGGGGAGGAGGAGGAGAAGAGGG
CCCCAAAGAAGAAGGGCCGGACATGGGGACCAGGAACACTTGGGCAGAAAGAGCTCACATCAGGAGATGA
AGGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177395

Insert Size: 1827 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_177395.5, NP_796369.2
RefSeq Size:	3396 bp
RefSeq ORF:	1827 bp
Locus ID:	338372
UniProt ID:	Q3U1V8
Cytogenetics:	12 D1
Gene Summary:	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade through the phosphorylation of MAP2K4/MKK4 and MAP2K7/MKK7 which in turn activate the JNKs. The MKK/JNK signaling pathway regulates stress response via activator protein-1 (JUN) and GATA4 transcription factors. Plays also a role in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.