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Product datasheet for MR219476

Map3k9 (NM_177395) Mouse Tagged ORF Clone

Product data:

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

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ORF Nucleotide Sequence:

>MR219476 representing NM_177395
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCCTCCAGATCGCTTCTCGGCTGCCTGGCGAGTGCCACTGCCGCCCCGCCGGGGGACGATGCCA
CGGGCGCTGGGGCCGAAGAGGAGGAGGACGAGGAGGAGGCGGCGGCCGAGCTGGGATCTCACGCCGCGCT
GCCCTACTGGACGGCTGTGTTCGAGTACGAGGCGGCGGGCGAGGACGAGCTGACCCTGCGGCTGGGCGAT
GTGGTAGAGGTGCTGTCCAAGGACTCGCAGGTGTCCGGCGATGAGGGCTGGTGGACCGGACAGCTGAACC
AGCGGGTGGGCATCTTCCCCAGCAACTACGTGACCCCGCGTAGCGCCTTCTCCAGCCGCTGCCAGCCGGG
CGCCGAGGACCCCAGCTGCTACCCGCCCATTCAGCTGTTAGAGATTGATTTTGCGGAGCTAACCCTGGAG
GAGATCATCGGCATTGGGGGCTTTGGGAAAGTTTATCGTGCTTTCTGGGCGGGCGATGAGGTGGCCGTGA
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TTGGTCATGGAGTTTGCTCGTGGAGGGCCTCTGAACAGAGTATTGTCTGGGAAGAGGATTCCCCCGGACA
TCCTGGTGAACTGGGCCGTGCAGATCGCCAGAGGGATGAACTATCTACATGATGAGGCGATCGTACCCAT
CATCCACCGAGACCTTAAGTCCAGCAACATATTGATCCTGCAGAAAGTGGAGAATGGAGACCTGAGTAAC
AAGATTCTGAAGATCACCGACTTTGGGCTGGCGCGGGAATGGCACCGGACCACCAAGATGAGTGCGGCGG
GAACATACGCTTGGATGGCACCTGAAGTCATCCGTGCTTCCATGTTTTCCAAAGGCAGCGATGTGTGGAG
CTACGGTGTACTGCTTTGGGAGCTGTTGACTGGCGAGGTGCCCTTCCGGGGCATTGATGGCTTAGCAGTG
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TCATGGAAGACTGCTGGAATCCCGACCCCCACTCGCGCCCATCTTTCACGAGTATCCTGGACCAGCTAAC
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CATGAGATTCAGGAGATGTTTGACCAACTCAGGGCCAAAGAAAAGGAGCTCCGAACCTGGGAAGAGGAGC
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GCGGGAGATCGACATCCTGGAGCGAGAGCTCAATATCATCATCCACCAGCTGTGCCAGGAAAAGCCCCGG
GTGAAGAAACGCAAGGGCAAGTTCAGGAAGAGCCGGCTGAAGCTCAAGGACGGCAACCGCATCAGCCTCC
CCTCCGATTTCCAGCACAAGTTCACGGTGCAGGCCTCCCCGACCATGGATAAAAGGAAGAGTCTGATCAG
CAACCGGTCGAGTCCTCCTGCAAGCCCCACCATCATCCCTCGCCTTCGAGCCATCCAGTTGACACCTGGT
GAAAGCAGTAAAACCTGGGGCCGGAGCTCAGTTGTTCCAAAAGAGGAAGGGGAGGAGGAGGAGAAGAGGG
CCCCAAAGAAGAAGGGCCGGACATGGGGACCAGGAACACTTGGGCAGAAAGAGCTCACATCAGGAGATGA
AGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

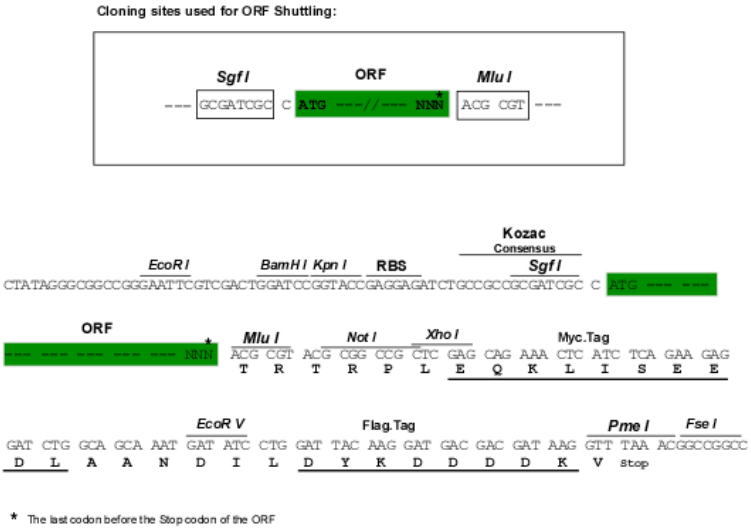
>MR219476 representing NM_177395
Red=Cloning site Green=Tags(s)

MESSRSLLGCLASATAAPPGDDATGAGAEEEEDEEEAAAELGSHAALPYWTAVFEYEAAGEDELTLRLGD
VVEVLSKDSQVSGDEGWWTGQLNQRVGIFPSNYVTPRSAFSSRCQPGAEDPSCYPPIQLLEIDFAELTLE
EIIGIGGFGKVYRAFWAGDEVAVKAARHDPDEDISQTIENVRQEAKLFAMLKHPNIIALRGVCLKEPNLC
LVMEFARGGPLNRVLSGKRIPPDILVNWAVQIARGMNYLHDEAIVPIIHRDLKSSNILILQKVENGDLSN
KILKITDFGLAREWHRTTKMSAAGTYAWMAPEVIRASMFSKGSDVWSYGVLLWELLTGEVPFRGIDGLAV
AYGVAMNKLALPIPSTCPEPFAKLMEDCWNPDPHSRPSFTSILDQLTTIEESGFFEMPKDSFHCLQDDWK
HEIQEMFDQLRAKEKELRTWEEELTRAALQQKNQEELLRRREQELAEREIDILERELNIIIHQLCQEKPR
VKKRKGKFRKSRLKLKDGNRISLPSDFQHKFTVQASPTMDKRKSLISNRSSPPASPTIIPRLRAIQLTPG
ESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGTLGQKELTSGDEG

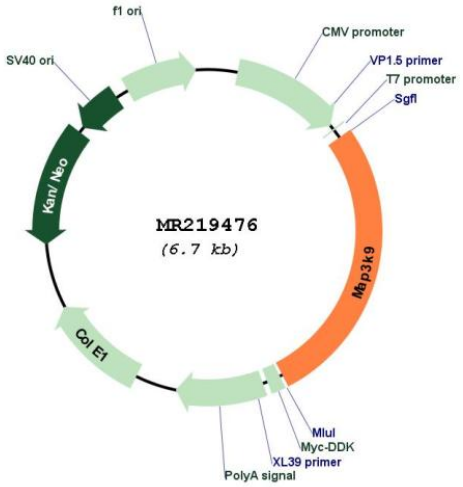
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177395

ORF Size: 1824 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	68.6 kDa
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]