OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC239726

MAP3K9 (NM_001284231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K9 (NM_001284231) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP3K9
Synonyms:	MEKK9; MLK1; PRKE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

ORF Nucleotide Sequence:

>RC239726 representing NM_001284231
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTTACAGGACTGGAAGTTGCCCTGGTATTGATCCTCCAGAAGGTGGAGAATGGAGACCTGAGCA
ACAAGATTCTGAAGATCACTGATTTTGGCCTGGCTCGGGAATGGCACCGAACCACCAAGATGAGTGCGGC
AGGGACGTATGCTTGGATGGCACCCGAAGTCATCCGGGCCTCCATGTTTTCCAAAGGCAGTGATGTGTGG
AGCTATGGGGTGCTACTTTGGGAGTTGCTGACTGGTGAGGTGCCCTTTCGAGGCATTGATGGCTTAGCAG
TCGCTTATGGAGTGGCCATGAACAAACTCGCCCTTCCTATTCCTTCTACGTGCCCAGAACCTTTTGCCAA
ACTCATGGAAGACTGCTGGAATCCTGATCCCCACTCACGACCATCTTTCACGAATATCCTGGACCAGCTA
ACCACCATAGAGGAGTCTGGTTTCTTTGAAATGCCCAAGGACTCCTTCCACTGCCTGCAGGACAACTGGA
AACACGAGATTCAGGAGATGTTTGACCAACTCAGGGCCAAAGAAAAGGAACTTCGCACCTGGGAGGAGGA
GCTGACGCGGGCTGCACTGCAGCAGAAGAACCAGGAGGAACTGCTGCGGCGTCGGGAGCAGGAGCTGGCC
GAGCGGGAGATTGACATCCTGGAACGGGAGCTCAACATCATCATCCACCAGCTGTGCCAGGAGAAGCCCC
GGGTGAAGAAACGCAAGGGCAAGTTCAGGAAGAGCCGGCTGAAGCTCAAGGATGGCAACCGCATCAGCCT
CCCTTCTGATTTCCAGCACAAGTTCACGGTGCAGGCCTCCCCTACCATGGATAAAAGGAAGAGTCTTATC
AACAGCCGCTCCAGTCCTCCTGCAAGCCCCACCATCATTCCTCGCCTTCGAGCCATCCAGTGTGAGACTG
TTTCCCAAATTAGCTGGGGCCAGAACACACAGGGGCACCTGTCCCCTGCTCTGTCCAGCCACCGACTGGT
CCAGGCTTGCTCCATCCATAACTTCTGCCACCTCTCCTCGACAATGTGTATATACATGCACATATTGACA
CCAGGTGAAAGCAGCAAAACCTGGGGCAGGAGCTCAGTCGTCCCAAAGGAGGAAGGGGAGGAGGAGGAGA
AGAGGGCCCCAAAGAAGAAGGGACGGACGTGGGGGCCAGGGACGCTTGGTCAGAAGGAGCTTGCCTCGGG
AGATGAAGGCCTCAAGTCCCTGGTAGATGGATATAAGCAGTGGTCGTCCAGTGCCCCCAACCTGGTGAAG
GGCCCAAGGAGTAGCCCGGCCCTGCCAGGGTTCACCAGCCTTATGGAGATGGCCTTGCTGGCAGCCAGTT
GGGTGGTGCCCATCGACATTGAAGAGGATGAGGACAGTGAAGGCCCAGGGAGTGGAGAGAGTCGCCTACA
GCATTCACCCAGCCAGTCCTACCTCTGTATCCCATTCCCTCGTGGAGAGGATGGCGATGGCCCCTCCAGT
GATGGAATCCATGAGGAGCCCACCCCAGTCAACTCGGCCACGAGTACCCCTCAGCTGACGCCAACCAACA
GCCTCAAGCGGGGCGGTGCCCACCACCGCCGCTGCGAGGTGGCTCTGCTCGGCTGTGGGGCTGTTCTGGC
AGCCACAGGCCTAGGGTTTGACTTGCTGGAAGCTGGCAAGTGCCAGCTGCTTCCCCTGGAGGAGCCTGAG
CCACCAGCCCGGGAGGAGAAGAAAAGACGGGAGGGTCTTTTTCAGAGGTCCAGCCGTCCTCGTCGGAGCA
CCAGCCCCCCATCCCGAAAGCTTTTCAAGAAGGAGGAGCCCATGCTGTTGCTAGGAGACCCCTCTGCCTC
CCTGACGCTGCTCTCCCTCTCCTCCATCTCCGAGTGCAACTCCACACGCTCCCTGCTGCGCTCCGACAGC
GATGAAATTGTCGTGTATGAGATGCCAGTCAGCCCAGTCGAGGCCCCTCCCCTGAGTCCATGTACCCACA
ACCCCCTGGTCAATGTCCGAGTAGAGCGCTTCAAACGAGATCCTAACCAATCTCTGACTCCCACCCATGT
CACCCTCACCACCCCCTCGCAGCCCAGCAGTCACCGGCGGACTCCTTCTGATGGGGCCCTTAAGCCAGAG
ACTCTCCTAGCCAGCAGGAGCCCCTCCAGCAATGGGTTGAGCCCCAGTCCTGGAGCAGGAATGTTGAAAA
CCCCCAGTCCCAGCCGAGACCCAGGTGAATTCCCCCGTCTCCCTGACCCCAATGTGGTCTTCCCCCCAAC
CCCAAGGCGCTGGAACACTCAGCAGGACTCTACCTTGGAGAGACCCAAGACTCTGGAGTTTCTGCCTCGG
CCGCGTCCTTCTGCCAACCGGCAACGGCTGGACCCTTGGTGGTTTGTGTCCCCCAGCCATGCCCGCAGCA
CCTCCCCAGCCAACAGCTCCAGCACAGAGACGCCCAGCAACCTGGACTCCTGCTTTGCTAGCAGTAGCAG
CACTGTAGAGGAGCGGCCTGGACTTCCAGCCCTGCTCCCGTTCCAGGCAGGGCCGCTGCCCCCGACTGAG
CGGACGCTCCTGGACCTGGATGCAGAGGGGCAGAGTCAGGACAGCACCGTGCCGCTGTGCAGAGCGGAAC
TGAACACACACAGGCCTGCCCCTTATGAGATCCAGCAGGAGTTCTGGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

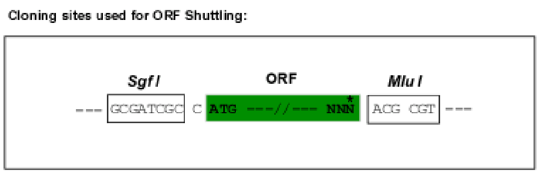
>RC239726 representing NM_001284231
Red=Cloning site Green=Tags(s)

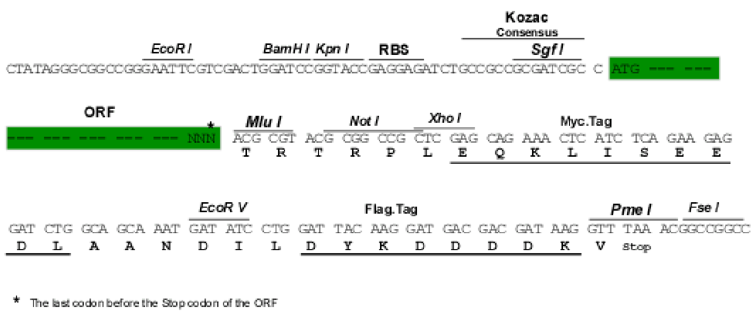
MELTGLEVALVLILQKVENGDLSNKILKITDFGLAREWHRTTKMSAAGTYAWMAPEVIRASMFSKGSDVW
SYGVLLWELLTGEVPFRGIDGLAVAYGVAMNKLALPIPSTCPEPFAKLMEDCWNPDPHSRPSFTNILDQL
TTIEESGFFEMPKDSFHCLQDNWKHEIQEMFDQLRAKEKELRTWEEELTRAALQQKNQEELLRRREQELA
EREIDILERELNIIIHQLCQEKPRVKKRKGKFRKSRLKLKDGNRISLPSDFQHKFTVQASPTMDKRKSLI
NSRSSPPASPTIIPRLRAIQCETVSQISWGQNTQGHLSPALSSHRLVQACSIHNFCHLSSTMCIYMHILT
PGESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGTLGQKELASGDEGLKSLVDGYKQWSSSAPNLVK
GPRSSPALPGFTSLMEMALLAASWVVPIDIEEDEDSEGPGSGESRLQHSPSQSYLCIPFPRGEDGDGPSS
DGIHEEPTPVNSATSTPQLTPTNSLKRGGAHHRRCEVALLGCGAVLAATGLGFDLLEAGKCQLLPLEEPE
PPAREEKKRREGLFQRSSRPRRSTSPPSRKLFKKEEPMLLLGDPSASLTLLSLSSISECNSTRSLLRSDS
DEIVVYEMPVSPVEAPPLSPCTHNPLVNVRVERFKRDPNQSLTPTHVTLTTPSQPSSHRRTPSDGALKPE
TLLASRSPSSNGLSPSPGAGMLKTPSPSRDPGEFPRLPDPNVVFPPTPRRWNTQQDSTLERPKTLEFLPR
PRPSANRQRLDPWWFVSPSHARSTSPANSSSTETPSNLDSCFASSSSTVEERPGLPALLPFQAGPLPPTE
RTLLDLDAEGQSQDSTVPLCRAELNTHRPAPYEIQQEFWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

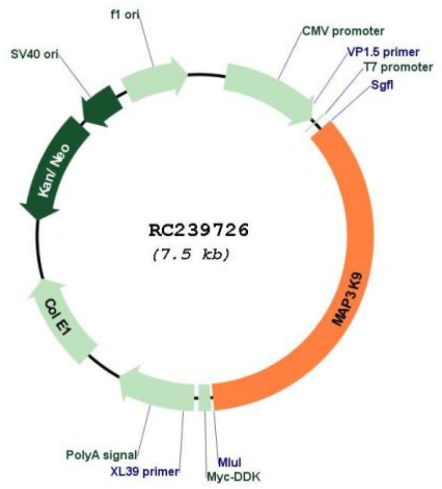
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN:	NM_001284231
ORF Size:	2640 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_001284231.1, NP_001271160.1
RefSeq Size:	10742 bp
RefSeq ORF:	2643 bp
Locus ID:	4293
Cytogenetics:	14q24.2
Protein Families:	Druggable Genome, Protein Kinase

MW: 98.2 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.[UniProtKB/Swiss-Prot Function]