

Product datasheet for **RG239655**

MAP3K9 (NM_001284232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K9 (NM_001284232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAP3K9
Synonyms:	MEKK9; MLK1; PRKE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239655 representing NM_001284232.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAGTGCGGCAGGGACGTATGCTTGGATGGCACCCGAAGTCATCCGGCCCTCCATGTTTTCCAAGGC
AGTGATGTGTGGAGCTATGGGGTCTACTTTGGGAGTTGCTGACTGGTGAGGTGCCCTTCGAGGCATT
GATGGCTTAGCAGTCGCTTATGGAGTGGCCATGAACAACTCGCCCTTCTATTCTCTACGTGCCCA
GAACCTTTTGCCAACTCATGGAAGACTGCTGGAATCCTGATCCCCACTCACGACCATCTTTCACGAAT
ATCCTGGACCAGCTAACCACCATAGAGGAGTCTGGTTTCTTTGAAATGCCCAAGGACTCCTTCCACTGC
CTGCAGGACAACGGAAACACGAGATTCAGGAGATGTTTGACCAACTCAGGGCCAAAGAAAGAACTT
CGCACCTGGGAGGAGGAGCTGACGCGGGTGCCTGCAGCAGAAGAACCAGGAGGAAGTCTGCGGCGT
CGGGAGCAGGAGTGGCCGAGCGGGAGATTGACATCCTGGAACGGGAGCTCAACATCATCATCCACCAG
CTGTGCCAGGAGAAGCCCGGGTGAAGAAACGCAAGGCAAGTTCAGGAAGAGCCGGCTGAAGCTCAAG
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GATAAAGGAAGAGTCTTATCAACAGCCGCTCCAGTCTCCTGCAAGCCCAACATCATTCTCGCCTT
CGAGCCATCCAGTGTGAGACTGTTTCCAAATTAGCTGGGGCCAGAACACACAGGGGCACCTGTCCCTT
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AAGGAGGAAGGGGAGGAGGAGAGAAGAGGGCCCCAAAGAAGAAGGGACGGACGTGGGGGCCAGGGACG
CTTGGTCAAGAGGAGCTTGCCCTCGGGAGATGAAGGCCCAAGTCCCTGGTAGATGGATATAAGCAGTGG
TCGTCCAGTGCCCCAACCTGGTGAAGGGCCCAAGGAGTAGCCCGGCCCTGCCAGGTTCCACCAGCCTT
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CGTGGAGAGGATGGCGATGGCCCTCCAGTGTGGAATCCATGAGGAGGCCACCCAGTCAACTCGGCC
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GTGGCTCTGCTCGGCTGTGGGGTGTCTGGCAGCCACAGGCCTAGGTTTGACTTGCTGGAAGCTGGC
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AAACGAGATCCTAACCAATCTCTGACTCCCACCATGTACCCCTCACCACCCCTCGCAGCCAGCAGT
CACCGGGGACTCCTTCTGATGGGGCCCTTAAGCCAGAGACTCTCCTAGCCAGCAGGAGCCCTCCAGC
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TCTACCTTGGAGAGACCAAGACTCTGGAGTTTCTGCCTCGGCCGCTCCTTCTGCAACCGGCAACGG
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GAGAGCCCAGCAACCTGGACTCCTGCTTGTCTAGCAGTGCAGCACTGTAGAGGAGCGGCCTGGACTT
CCAGCCCTGCTCCGTTCCAGGCAGGGCCGCTGCCCCGACTGAGCGGACGCTCCTGGACCTGGATGCA
GAGGGGCAGAGTCAGGACAGACCGTGGCCTGTGCAGAGCGGAACTGAACACACACAGGCTGCCCTT
TATGAGATCCAGCAGGAGTTCTGGTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239655
 Blue=ORF Red=Cloning site Green=Tag(s)

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MSAAGTYAWMAPEVIRASMFSGKSDVWSYGVLLWELLTGEVPPFRGIDGLAVAYGVAMNKLALPIPSTCP
EPFAKLMEDCWNPDPHSRPSFTNILDQLTTIEESGFFEMPKDSFHCLQDNWKHEIQEMFDQLRAKEKEL
RTWEEELTRAAALQKNQEELLRRREQELAEREIDILERELNIIHQLCQEKPRVKKRKGKFRKSRLKLG
DGNRISLPSDFQHKFTVQASPTMDKRKSLINSRSSPPASPTIIPRLRAIQ CETVSQISWGQNTQGHLSPL
ALSSHRLVQACSIHNFCHLSSTMCIYMHILTPGESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGT
LGQKELASGDEGLKSLVDGYKQWSSAPNLVKGPRSSPALPGFTSLMEMALLAASWVVPIDIEEDEDSE
GPGSGESRLQHSPSQSYLCIPFPRGEDGDGSSDGIHEEPTPVNSATSTPQLTPTNSLKRGGAHHRRCR
VALLGCGAVLAATGLGFDLLEAGKQLLPLEEPEPPAREEKKRREGLFQRSSRPRRSTSPPSRKLFKKE
EPMLLLGDPSASLTLLSLSSISECNSTRSLLRSDSDEIVVYEMPVSPVEAPPLSPCTHNPLVNVVERF
KRDPNQSLTPTHVTLTTPSQPSSHRRTPSDGALKPETLLASRSPSSNGLSPSPGAGMLKTPSPSRDPGE
FPRLPDPNVVFPPTPRRWNTQQDSTLERPKTLEFLPRRPSANRQLDPWWFVSPSHARSTSPANSST
ETPSNLDSCFASSSSTVEERPGLPALLPFQAGPLPPTERTLLDLDAEGQSQDSTVPLCRAELNTHRPAP
YEIQQEFWS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKA IHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001284232

ORF Size: 2511 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.

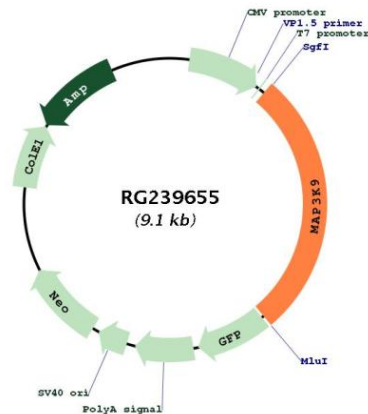
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001284232.1](#), [NP_001271161.1](#)

RefSeq Size: 10696 bp

RefSeq ORF:	2514 bp
Locus ID:	4293
Cytogenetics:	14q24.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	93.3 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]

Product images:



Circular map for RG239655