

## Product datasheet for **SC337549**

### MAP3K9 (NM\_001284232) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K9 (NM_001284232) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP3K9
Synonyms:	MEKK9; MLK1; PRKE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001284232, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGC GGCAGGGACGTATGCTTGGATGGCACCCGAAGTCATCCGGGCCTCCATGTTTTCCAAAGGCA
GTGATGTGTGGAGCTATGGGGTGTACTTTGGGAGTTGCTGACTGGTGGGTGCCCTTTCGAGGCATTGA
TGGCTTAGCAGTCGCTTATGGAGTGGCCATGAACAAACTCGCCCTCCTATTCTTCTACGTGCCAGAA
CCTTTTGC AAACTCATGGAAGACTGCTGGAATCCTGATCCCCACTCACGACCATCTTTCACGAATATCC
TGGACCAGCTAACCACTAGAGGAGTCTGGTTTTCTTTGAAATGCCCAAGGACTCCTTCCACTGCCTGCA
GGAACTGGAACACGAGATTCAGGAGATGTTTGACCAACTCAGGGCCAAAGAAAAGAACTTCGCACC
TGGGAGGAGGAGCTGACGCGGGCTGCACTGCAGCAGAAGAACCAGGAGGAACTGCTGCGGCGTGGGAGC
AGGAGCTGGCCGAGCGGGAGATTGACATCCTGGAACGGGAGCTCAACATCATCATCCACCAGCTGTGCCA
GGAGAAGCCCCGGTGAAGAAACGCAAGGGCAAGTTCAGGAAGAGCCGGCTGAAGCTCAAGGATGGCAAC
CGCATCAGCTCCCTTCTGATTTCCAGCACAAGTTCACGGTGCAGGCCTCCCTACCATGGATAAAAGGA
AGAGTCTTATCAACAGCCGCTCCAGTCTCCTGCAAGCCCCACCATCATTCTCGCTTCGAGCCATCCA
GTGTGAGACTGTTTTCCAAATTAGCTGGGGCCAGAACACACAGGGGCACCTGTCCCTGTCTGTCCAGC
CACCGACTGGTCCAGGCTTGCTCCATCCATAACTTCTGCCACCTCTCCTCGACAATGTGTATATACATGC
ACATATTGACACCAGGTGAAAGCAGCAAAACCTGGGGCAGGAGCTCAGTCGTCCCAAAGGAGGAAGGGGA
GGAGGAGGAGAAGAGGGCCCCAAGAAGAAGGGACGGAGCTGGGGGCCAGGGACGCTTGGTCAGAAGGAG
CTTGCCTCGGGAGATGAAGGCCTCAAGTCCCTGGTAGATGGATATAAGCAGTGGTCCAGTGCSCCACA
ACCTGGTGAAGGGCCCAAGGAGTAGCCCGGCCCTGCCAGGGTTCACCAGCCTTATGGAGATGGCCTTGCT
GGCAGCCAGTTGGGTGGTGGCCATCGACATTGAAGAGGATGAGGACAGTGAAGGCCCAGGGAGTGGAGAG
AGTCGCTACAGCATTACCCAGCCAGTCTACCTCTGTATCCCATCCCTCGTGGAGAGGATGGCGATG
GCCCTCCAGTGATGGAATCCATGAGGAGCCACCCAGTCAACTCGGCCACGAGTACCCCTCAGCTGAC
GCCAACCAACAGCCTCAAGCGGGGCGGTGCCACCACCGCGCTGCGAGGTGGCTCTGCTCGGCTGTGGG
GCTGTTCTGGCAGCCACAGGCCTAGGGTTTGACTTGTGGAAGCTGGCAAGTGGCAGCTGCTTCCCTGG
AGGAGCCTGAGCCACCAGCCCGGGAGGAGAAGAAAAGACGGGAGGGTCTTTTTTCAGAGGTCCAGCCGTCC
TCGTGGGAGCACCAGCCCCCATCCCGAAAGCTTTTCAAGAAGGAGGAGCCCATGCTGTTGCTAGGAGAC
CCCTCTGCCTCCCTGACGCTGCTCTCCCTCTCCTCCATCTCCGAGTGCAACTCCACACGCTCCCTGCTGC
GCTCCGACAGCGATGAAATTGTCGTGTATGAGATGCCAGTCCAGCCAGTCCAGGCCCTCCCTGAGTCC
ATGTACCACAACCCCTGGTCAATGTCCGAGTAGAGCGCTTCAAACGAGATCCTAACCAATCTCTGACT
CCACCCATGTACCCCTACCACCCCTCGCAGCCAGCAGTCCAGGCCGACTCCTTCTGATGGGGCCC
TTAAGCCAGAGACTCTCCTAGCCAGCAGGAGCCCTCCAGCAATGGGTTGAGCCCCAGTCCCTGGAGCAGG
AATGTTGAAAACCCCAAGTCCCAGCCGAGACCCAGGTGAATTCCTCCCTGCTCCCTGACCCCAATGTGGTC
TTCCCCCAACCCCAAGGCGCTGGAACACTCAGCAGGACTCTACCTTGGAGAGACCAAGACTCTGGAGT
TTCTGCCTCGGCCGCTCCTTCTGCAACCGGCAACGGCTGGACCCTTGGTGGTTGTGTCCCCAGCCA
TGCCCGCAGCACCTCCCCAGCCAACAGCTCCAGCACAGAGACGCCAGCAACCTGGACTCCTGCTTTGCT
AGCAGTAGCAGCACTGTAGAGGAGCGGCTGGACTTCCAGCCCTGCTCCCGTTCCAGGCAGGGCCGCTGC
CCCCGACTGAGCGGACGCTCCTGGACCTGGATGCAGAGGGGCAGAGTCCAGGACAGCACCCGTGCCGCTGTG
CAGAGCGGAACTGAACACACAGGCCTGCCCTTATGAGATCCAGCAGGAGTTCTGGTCTAG
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001284232

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001284232.1</u> , <u>NP_001271161.1</u>
<b>RefSeq Size:</b>	10696 bp
<b>RefSeq ORF:</b>	2514 bp
<b>Locus ID:</b>	4293
<b>Cytogenetics:</b>	14q24.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It initiates translation at a downstream in-frame start codon. The encoded isoform (4) is shorter and has a shorter N-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.</p>