

## Product datasheet for **MG219476**

### Map3k9 (NM\_177395) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k9 (NM_177395) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map3k9
Synonyms:	E130314H24Rik; Mlk1; Prke1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG219476 representing NM\_177395  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGTCTCCAGATCGCTTCTCGGCTGCCTGGCGAGTGCCACTGCCGCCCCGCCGGGGACGATGCCA  
 CGGGCGCTGGGGCCGAAGAGGAGGAGGACGAGGAGGAGGCGGCCGAGCTGGGATCTCACGCCGCGT  
 GCCCTACTGGACGGCTGTGTTTCGAGTACGAGGCGCGGGCGAGGACGAGCTGACCCTGCGGCTGGGCGAT  
 GTGGTAGAGGTGCTGTCCAAGGACTCGCAGGTGTCCGGCGATGAGGGCTGGTGGACCGGACAGCTGAACC  
 AGCGGGTGGGCATCTTCCCAGCAACTACGTGACCCCGGTAGCGCCTTCTCCAGCCGCTGCCAGCCGGG  
 CGCCGAGGACCCAGCTGCTACCCGCCATTACGTGTTAGAGATTGATTTTGGGAGCTAACCTGGAG  
 GAGATCATCGGCATTGGGGGCTTTGGGAAAGTTTATCGTGCTTTCTGGGCGGGCGATGAGGTGGCCGTGA  
 AGGAGCTCGTCACGACCCTGATGAGGACATCAGCCAGACCATAGAGAACGTTCCGAAGAGGCCAAGCT  
 CTTTGCCATGCTGAAGCACCCGAACATCATTGCGCTCAGAGGGGTGTGCCTGAAGGAACCAACCTCTGC  
 TTGGTCATGGAGTTTGCTCGTGGAGGGCTCTGAACAGAGTATTGTCTGGGAAGAGGATCCCCCGACA  
 TCCTGGTGAAGTGGCCGTGCAGATCGCCAGAGGGATGAACTATCTACATGATGAGGCGATCGTACCCAT  
 CATCCACCGAGACCTTAAGTCCAGCAACATATTGATCCTGCAGAAAGTGGAGAATGGAGACCTGAGTAAC  
 AAGATTCTGAAGTACCCGACTTTGGGCTGGCGCGGGAATGGCACCGGACCACCAAGATGAGTGGCGCG  
 GAACATACGCTTGGATGGCACCTGAAGTATCCGTGCTTCCATGTTTTCCAAAGGCGAGGATGTGTGGAG  
 CTACGGTGTACTGCTTTGGGAGCTGTGACTGGCGAGGTGCCCTCCGGGCGATTGATGGCTTAGCAGTG  
 GCTTACGGTGTGGCCATGAACAACTCGCCCTTCTATCCCTCTACATGTCCAGAGCCTTTTGCCTAAC  
 TCATGGAAGACTGCTGGAATCCCAGCCCACTCGGCCCATTTTACAGAGTATCTGGACCAGCTAAC  
 GACTATAGAGGAGTCCGGTTCCTTTGAGATGCCCAAGGACTCCTTCCACTGCCTGCAGGACGACTGGAAA  
 CATGAGATTACAGGAGATGTTTGACCAACTCAGGGCCAAAGAAAAGGAGCTCCGAACCTGGGAAGAGGAGC  
 TGACCCGGGCTGCGCTCCAGCAGAAGAACCAGGAGGAGCTGCTCCGGCGTAGGGAGCAGGAGCTGGCGGA  
 GCGGGAGATCGACATCCTGGAGCGAGAGCTCAATATCATCATCCACGAGCTGTCCAGGAAAAGCCCGG  
 GTGAAGAAACGCAAGGGCAAGTTCAGGAAGAGCCGGCTGAAGCTCAAGGACGGCAACCGCATCAGCCTCC  
 CCTCCGATTTCCAGCACAAGTTCACGGTGCAGGCTCCCCGACCATGGATAAAAGGAAGAGTCTGATCAG  
 CAACCGGTCGAGTCTCCTGCAAGCCCCACCATCATCCCTCGCCTTCGAGCCATCCAGTTGACACCTGGT  
 GAAAGCAGTAAAACCTGGGGCCGAGCTCAGTTGTTCCAAAAGAGGAAGGGGAGGAGGAGAAGAGGG  
 CCCCAAAGAAGAAGGGCCGGACATGGGGACCAGGAACACTTGGGCAGAAAGAGCTCACATCAGGAGATGA  
 AGGG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG219476 representing NM\_177395  
 Red=Cloning site Green=Tags(s)

MESSRSLGLASATAAPPDDATGAGAEEDDEEEAAELGSHAALPYWTAVFEYEAAGEDELTLRLGD  
 VVEVLSKDSQVSGDEGWWTGQLNQRVGFPSNYVTPRASFSSRCQPGAEDPSCYPPIQLLEIDFAELTLE  
 EIIGIGGFVKVYRAFVAGDEVAVKAAARHPDEDISQTIENVRQEAKLFAMLKHPNIIALRGVCLKEPNLC  
 LVMEFARGGPLNRVLSGKRIPPDILVNWAVQIARGMNYLHDEAIVPIIHRDLKSSNIIILQKVENGLSN  
 KILKITDFGLAREWHRTTKMSAAGTYAWMAPEVIRASMFSGSDVWSYGVLLWELLTGEVFPFRGIDGLAV  
 AYGVAMNKLALPIPSTCEPFKALMEDCWNPDPHSRPFTSILDQLTTIEESGFEMPKDSFHCLQDDWK  
 HEIQEMFDQLRAKEKELRTWEEELTRAALQKQNEELLRRREQELAEREIDILERELNIIHQLCQEKPR  
 YKKRKGKFRKSRLKLDGNRISLPSDFQHKFTVQASPTMDKRKSLISNRSSPPASPTIIPRLRAIQLTPG  
 ESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGLGQKELTSGDEG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**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

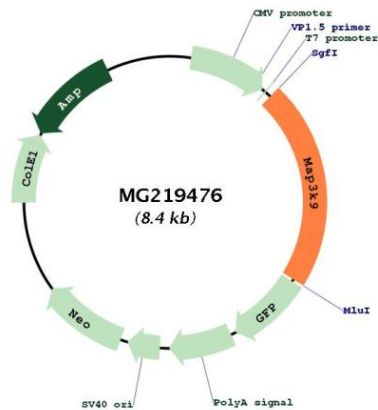
**Locus ID:** 338372

**UniProt ID:** [Q3U1V8](#)

**Cytogenetics:** 12 D1

**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]

**Product images:**



Circular map for MG219476