

Product datasheet for **MC222837**

Map3k13 (NM_172821) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k13 (NM_172821) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Map3k13
Synonyms:	C130026N12Rik; LZK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222837 representing NM_172821
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCAACCCTCAGGAGCACCTGAGCTGCTCCTCTTTGCCACACTTGCCCTTGACTGAGAACAACCT
 CTGGTGGACGAAATGAGCTTGCAGCTATGGGGAACACCCTTACCCCAAGCTCCCTGAGGACCCTCAGGA
 GAGGGGGCTATACAGTCAGAGCTGATGGAGATCACAGGCAGCCCGATCTCCACAACAGTGTGACCACT
 GTAAGCGAGGATTCTAGGGGCCAGTTTGAACAAGTGTCTTTCAGCTAAGGGAACAGGATGAGTCAGAGA
 TGACCCTGTCTCTGGGGAACAGCAACACTGTGGATGGAGAGAACACGAACGGACCAGAAGACATCAAGAT
 TCAGTTCAGCAGGTGAGCAGCGGCAGCGGGGTTTCTCGAAGGACTGTTTGGATGTCTCAGGCCCGTG
 TGGAAATCATTGGGAAGGCATATTCCACTGATTACAAGCTGCAGCAGCAAGATACTTGGGAAGTGCAT
 TTGAGGAAATCTCAGAGCTGCAATGGCTGGGTAGTGGAGCCCAAGGAGCTGTCTTCTGGGCAAATCCG
 AGCAGAGGAGGTGCCATCAAGAAGGTGAGAGAACAATAAGAGACGGACATCAAGCATCTGAGGAAGCTG
 AAGCACCCTAACATCATCGCCTTCAAGGTGTTTGCAGCTCAGGCCCGTGTCTACTGCATCATCATGGAGT
 ACTGTGCCACGGACAGCTGTACGAGGTCTGAGAGCTGGCCGGAAGATCACGCCCGGGTCTTGTGGA
 CTGGTCCACGGGAATCGCCAGTGGAAATGAATTATCTCCATCTCCACAAGATTATACACCGTGACCTCAAG
 TCGCCCAATGTTTGTGACTCACACAGATGCAGTGAAAATTTTCAGACTTTGGCAGATCTAAGGAACTCA
 GTGATAAAGCACCAAGATGTCTTTCGCTGGCACCCTCGCGTGGATGGCACCAGAGGTGATCCGGAATGA
 GCCTGTCTCGGAGAAGGTGGACATATGGTCATTTGGTGTGGTACTTTGGGAGCTGCTGACAGGGGAGATT
 CCCTACAAGGATGTGACTCTTCCGCCATCATTGGGGTGTGGCAGCAACAGCTTGCATCTCCCAGTTC
 CTCCACTTGCCCGGATGGATTCAAAATCCTTATGAAACAGACATGGCAGAGTAAGCCTCGCAACGACCC
 TTCTTTAGCAGCAGCTCATGCATCTGGATATCGCGTCTGCAGATGTGCTCGCCACCCCTCAAGAACT
 TACTTCAAGTCTCAGGCTGAATGGAGAGAAGAAGTGAAGAAACATTTTGAGAAAATCAAAAAGTGAAGGGA
 CCTGTATACACCGATTAGATGAAGAAGTATTTCGCCGGCGCAGGGAGGAGCTCAGGCATGCTCTGGATAT
 TCGGGAGCACTACGAGAGAAAGCTCGAACGGGCTAACAATCTGTACATGGAGCTGAGCGCCATCATGCTG
 CAGCTGGAGATGCGCGAGAAGGAGCTCCTAAGCGAGAGCAAGCAGTGGAAAAGAAGTACCCTGGAACCT
 ACAAACGACACCCTGTCCGTCCAATCATCCACCCGAATGCCATGGAGAACTCATGAAAAGGAAGGGTGT
 GCCTCACAAAGGCTGGGGTGCAGACTAAGCGGCCAGACCTGTTGCGATCCGAAGGCATTCTAGTACAGAA
 GCGGTTCCCACTGCATCCCCCTGTCTGGAAGTCCAAAATGTCCACCGCAAGCAGCAGAAGCCGGTACC
 GAAGCAAACCACGTACCGCCGAGGGAACAGTAGAGGCAGCCATAGCGACTTCGCAGCAATCTTGAAAAC
 CCAGCCCGCCAGGAAAATTCACCCACCCACCTACATGCACCACACTCAGGCTCAGTCGCTTACGTC
 CATCAACATAACCCTCTCCAGCAGCAATACCAGCAAATTCCTCCTGCCAGCCTCAGAGCCGGCATCCCA
 GACTCAATGCGCATGGGCAGGACATTGCAACCTGCGCCAATAACCTGAGGTACTTTGGCCCCGACGGGC
 CCTGCGGAGTCCACTCAGCAACCATGCACAAAGACAGATGCCTGGCTCAAGCCCCGACCTCATCTCCACA
 GCCATGGCTGCAGATTGGAGAAATCTGAACTTGATCAAGACCAAGTTGGACCCTGGGGCTGTTGTCAAG
 CTGAACCTATGATCCCTGTTTCCAGTGCAGGCCAGAACATTCTGGTCTTTAGATGTTCCCACTACTGA
 GCCAGTGGGAGGAGCCAGACCTTTCCAGTTCACCAGCACACAATCCTCTTTCAGGAAAATGCCAAAGGC
 TCTGAGAGAACAGGGGCAAATGGATTAGTGGCTGTAGTCTGGTATTTCTCATCAATTCACACCCCAA
 TGCTACCTCAGAAGACACGGCCCTTCAAGAGTGGCGATGACTCCTCAGAAGGGAAGGGGAAGTGGGA
 CAGTGAAGTAGAATTTCTCGACGACAGAGGCCTCACCGTGCATTAGCAGTTACCAGTCATACTCAACC
 TTAGCTCCGAGAATTTCTGTGTCTGATGGAGAGGAGGGCAACACTAGTGACCACTCGAACAGTCCCG
 ATGAATCCGCCAACAGACGGCAGGACCGCTGGCAGAGACGCTGGACGACCTGCTGTCTCAGACACCCGA
 GGCCCCATCGAGATCTCTCCCACTCAGATGGGCTGTCTGACAAGGAGTGTGCTGTTCCGGCGGTGAAG
 ACACAGATGTCCCTAGGCAAGCTGTGTGCCGAGGAGCGCGCTACGAGAACCCTGTGCAGTTTGGAGACT
 CGGACTGTGACTTTCAGAGGGAGAGTGTCCGATGCCACAGTTAGGACCAGCAAGAACTACAGCTCTGC
 CACTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172821

Insert Size: 2880 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_172821.3](#), [NP_766409.2](#)

RefSeq Size: 6709 bp

RefSeq ORF: 2880 bp

Locus ID: 71751

UniProt ID: [Q1HKZ5](#)

Cytogenetics: 16 B1

Gene Summary: Activates the JUN N-terminal pathway through activation of the MAP kinase kinase MAP2K7. Acts synergistically with PRDX3 to regulate the activation of NF-kappa-B in the cytosol. This activation is kinase-dependent and involves activating the IKK complex, the IKBKB-containing complex that phosphorylates inhibitors of NF-kappa-B (By similarity).[UniProtKB/Swiss-Prot Function]