

Product datasheet for MC224012

Map4k4 (NM_008696) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Map4k4 (NM_008696) Mouse Untagged Clone
Tag: Tag Free
Symbol: Map4k4
Synonyms: 9430080K19Rik; AU043147; AU045934; AW046177; HGK; Nik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224012 representing NM_008696
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAACGACTCTCCCGGAAGAGCCTGGTGGACATTGACCTGTCGTCCTGCGGGACCCTGCTGGGA
 TTTTTGAGCTGGTGAAGTGGTTGGAAATGGCACCTATGGACAAGTCTATAAGGGTCGACATGTTAAAC
 GGGTCAGCTGGCCGCATCAAGTTATGGACGTCACCGAGGATGAAGAGGAAGAAATCAAAGTGGAGATA
 AATATGCTGAAGAAGTATTCTCATCATCGAAATATTGCCAGTACTATGGTGCTTTCATTAAAGAAGACC
 CTCCAGGACATGATGACCAACTCTGGCTTGTATGGAGTTTTGTGGGGCTGGGTCCATCACAGACCTTGT
 GAAGAACACCAAAGGGAACACTCTCAAAGAAGACTGGATTGCTTACATCTCCAGGGAAATCCTCAGGGGA
 TTGGCAGATCTCCATATTCACCACGTTATTCACCGAGATCAAGGGCCAAAATGTGCTGCTGACCGAGA
 ATGCTGAGGTGAACTTGTGTTTTGGTGTAAAGCGCTCAGCTGGACAGGACGGTTGGACGGAGAAATAC
 GTTCATAGGCACACCCTACTGGATGGCTCCAGAGGTATCGCCTGTGATGAGAACCAGACGCCACTTAC
 GACTACAGAAGTGACCTCTGGTCTGTGGCATCACAGCCATCGAGATGGCTGAAGGGCCCCCTCTCT
 GTGACATGCATCCAATGAGAGCGCTGTTTCTCATCCCCAGAACCTCCTCCAGGCTGAAGTCAAAAAA
 ATGGTCAAAGAAATTTTCAGCTTTATAGAAGGCTGTCTGGTGAAGAATTACATGCAGCGGCCCTTACA
 GAGCAACTTTTTAAACACCCCTTTCATAAGGGATCAGCCCAATGAAAGGCAGGTTCAATCCAGCTTAAGG
 ATCACATAGACCGGACCAGAAAGAAGAGAGGCGAGAAAGATGAGACGGAGTACGAGTACAGCGGGAGCGA
 GGAGGAGGAGGAGGAAGTGCCTGAGCAGGAGGGAGAGCCAAGTTCATCGTCAATGTGCCTGGAGAGTCA
 ACTCTGCGACGTGATTTCTGAGACTGCAGCAGGAGAACAAGGAGCGGTCTGAGGCTCTGCGGAGACAGC
 AGCTTCTGCAGGAGCAGCAGCTCCGGGAGCAGGAGGAGTATAAGAGGCAGCTGCTGGCTGAGAGGCAGAA
 GCGGATTGAACAGCAGAAAGAACAGAGGAGGCGGCTGGAAGAGCAACAAGAAGAGAACGGGAAGCCAGG
 AGGCAGCAGGAGCGTGAACAGCAGCGCGGCTGAACAAGAGGAGAAGAGGCGTCTCGAGGAAGTGGAAAGGC
 GCGGTAAGAAGAGGAAGAGAGGAGACGGCAGAAAGAGGAGAAGAGGAGAGTGGAGAGGGAACAGGAGTA
 CATCAGGCGGAGCTAGAGGAGGAGCAGCGCACCTGGAGATCCTGCAGCAGCAGCTGCTCCAGGAGCAG
 GCCATGTTACTGCACGACCACAGGAGGCCGACGCACAGCAGCAGCCGCCGCCCCCGCAGCAGCAGGACA



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GGAGCAAACCGAGCTTTCATGCTCCAGAGCCCAAGCCTCACTATGACCCTGCTGACAGAGCTCGGGAGGT
ACAGTGGTCCCACCTGGCATCTCTCAAGAACAAATGTCTCCCTGTCTCGAGATCCCATTCTTCAGTGAC
CCTTCTCCAAATTCGCACACCACCATCTCCGCTCTCAGGACCCATGTCCACCTCCCGCAGTGAGGGGC
TCAGTCAGAGCTCTGACTCTAAGTCGGAGGTGCCGAGCCACCCAAAAGGCTTGGTCTAGATCAGACAG
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CCACTGCAGGGCGGTGGACAGCAGAATAGCCAAGCAGGACAGAGAATTCACCAGCAGTATTGAGCCCC
GGCTTCTTTGGGAGAGAGTGAAAAGCTGGTCCCAGGCCAGGCAGTGGCAGCTTTCAGGGTCCAGCAA
CTCAGGATCCCAGCCTGGCTCCCATCCTGGGTCTCAGAGCGGCTCCGGTGAACGCTTCAGAGTGAGATCA
TCATCCAAGTCTGAAGTTCTCCATCGCCACGCCAGAAAAGTGCAGCCAAAAAGCCTGACGATAAGAAA
AAGTATTCGGCCTCTCAAGCCTGCGGGAGAAGTGGACTTGACTGCGTTGGCCAAAGAGCTTCGAGCAGT
GGAAGATGTTTCGGCCACCTCACAAAGTAACAGACTACTCATCCTCCAGTGAGGAGTCTGGGACCACAGAT
GAGGAGGAGGAGGACGTGGAACAGGAGGGGGCTGATGATTCTACCTCGGGACCAGAAGACACCAGAGCAG
CGTCATCTCCGAACCTGAGCAACGGTGAACAGAAATCTGTGAAAACAATGATCGTTCATGATGATGATGATA
AAGTGAGCCAGCCATGACCCCGTCAAGGAGGGCACCCATCATCGTCCGCCAGACTCAGTCCGCTAGTAGC
ACACTCCAGAAAACAAAACTTCTCTCTCTTTACACCTTTTATAGACCCAGGTTACTACAGATCTCTC
CATCTAGTGGGACGACAGTGACTTCCGTGGTGGGATTTTCTGTGATGGGCTGAGACCAGAAGCCATAAG
GCAAGATCCTACTCGAAAGGCTCAGTGGTCAATGTGAACCCACGAACACTAGGCCACAGAGTGATACC
CCCAGATTTCGTAATAACAAGAAGAGATTTAACTCAGAGATCCTGTGTGCTGCCTTATGGGGAGTGAAT
TGCTGGTTGGTACAGAGAGCGGTCTGATGCTCTTGACAGAAAGTGGCCAAGGGAAAGTATACCCTCTGAT
CAGCCGAAGACGGTTCAGCAAAATGGATGTGCTCGAAGGCCTAAATGTCTGGTGAACAATCTGGCAAA
AAGGATAAGTTACGTGTCTACTATTTACCTGGCTAAGAAATAAGATTCTCATAATGATCCAGAGGTTG
AGAAGAAGCAGGGGTGGACCACCTGTGGCGACTTGAAGGGTGCCTGACTATAAAGTCGTAATAATGA
AAGAATCAAGTTTCTGGTAATTGCTTTGAAGAGTCTGTGGAAGTCTATGCATGGGCACCGAAGCCATAT
CACAAATTTATGGCCTTTAAGTCATTTGGAGAAGTCTACATAAGCCATTACTGGTGGATCTCACTGTGG
AGGAAGGCCAGAGGTTGAAAGTATCTATGGATCCTGTGCGGGATTCCATGCTGTTGATGTGGATTGAGG
CTCAGTCTATGACATTTATCTACCAACACATATTCAGTGTAGCATCAAACCCCATGCAATCATTATCCTC
CCCAACACGGATGGGATGGAGCTGCTGGTGTGCTACGAAGACGAGGGGGTTTACGTTAACACGTACGGAA
GGATCACCAAGGACGTGGTTCTGCAGTGGGAGAGATGCCGACATCTGTAGCATAATCCGGTCCGAATCA
GACAATGGGCTGGGAGAGAAGGCAATAGAGATACGATCTGTGAAACTGGTCACTTGGATGGTGTATTT
ATGCACAAAAGGGCTCAGAGACTAAAGTCTGTGTGAACGCAATGACAAGGTGTTCTTTGCCCTCCGTCC
GCTCTGGTGGCAGCAGCCAGGTCTATTTTCATGACCTTAGGCAGGACTTCTTCTGAGCTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_008696

Insert Size:

3705 bp

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).

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_008696.2](#), [NP_032722.2](#)

RefSeq Size: 5620 bp

RefSeq ORF: 3705 bp

Locus ID: 26921

UniProt ID: [P97820](#)

Cytogenetics: 1 B

Gene Summary: Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr-322 (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks multiple in-frame exons in the central coding region, compared to variant 1, and encodes a shorter isoform (2), compared to isoform 1.