

Product datasheet for **MC229484**

Map4k4 (NM_001252201) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Map4k4 (NM_001252201) 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: >MC229484 representing NM_001252201
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGAACGACTCTCCCGGAAGAGCCTGGTGGACATTGACCTGTCGTCCTGCGGGACCCTGCTGGGA
 TTTTTGAGCTGGTGAAGTGGTTGGAAATGGCACCTATGGACAAGTCTATAAGGGTCGACATGTTAAAC
 GGGTCAGCTGGCCGCATCAAGTTATGGACGTCACCGAGGATGAAGAGGAAGAAATCAAAGTGGAGATA
 AATATGCTGAAGAAGTATTCTCATCATCGAAATATTGCCAGTACTATGGTGCTTTCATTAAAGAAGGCC
 CTCCAGGACATGATGACCAACTCTGGCTTGTATGGAGTTTTGTGGGGCTGGGTCCATCACAGACCTTGT
 GAAGAACACCAAAGGGAACACTCTCAAAGAAGACTGGATTGCTTACATCTCCAGGGAAATCCTCAGGGGA
 TTGGCAGATCTCCATATTCACCACGTTATTCACCGAGATCAAGGGCCAAAATGTGCTGCTGACCGAGA
 ATGCTGAGGTGAACTTGTGATTTTGGTGTAAAGCGCTCAGCTGGACAGGACGGTTGGACGGAGAAATAC
 GTTCATAGGCACACCCTACTGGATGGCTCCAGAGGTCAATCGCTGTGATGAGAACCAGACGCCACTTAC
 GACTACAGAAGTGACCTCTGGTCTGTGGCATCACAGCCATCGAGATGGCTGAAGGGGCCCTCTCTCT
 GTGACATGCATCCAATGAGAGCGCTGTTTCTCATCCCCAGAACCCCTCTCCAGGCTGAAGTCAAAAAA
 ATGGTCAAAGAAATTTTTCAGCTTTATAGAAGGCTGTCTGGTGAAGAATTACATGCAGCGGCCCTTACA
 GAGCAACTTTTTAAACACCCCTTTCATAAGGGATCAGCCCAATGAAAGGCAGGTTTCAATCCAGCTTAAGG
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 GGAGGAGGAGGAGGAAGTGCCTGAGCAGGAGGGAGAGCCAAGTTCATCGTCAATGTGCCTGGAGAGTCA
 ACTCTGCGACGTGATTTCTGAGACTGCAGCAGGAGAACAAGGAGCGGTCTGAGGCTCTGCGGAGACAGC
 AGCTTCTGCAGGAGCAGCAGCTCCGGGAGCAGGAGGAGTATAAGAGGCAGCTGCTGGCTGAGAGGCAGAA
 GCGGATTGAACAGCAGAAAGAACAGAGGAGGCGGCTGGAAGAGCAACAAGAAGAGAACGGGAAGCCAGG
 AGGCAGCAGGAGCGTGAGCAGCGCGGCGTGAACAAGAGGAGAAGAGGCGTCTCGAGGAAGTGGAAAGGC
 GCGGTAAGAAGAGGAAGAGAGGAGACGGGCAGAAAGAGGAGAAGAGGAGAGTGGAGAGGGAACAGGAGTA
 CATCAGGCGGAGCTAGAGGAGGAGCAGCGCACCTGGAGATCCTGCAGCAGCAGCTGCTCCAGGAGCAG
 GCCATGTTACTGCACGACCACAGGAGGCCGACGCACAGCAGCAGCCGCCGCCCCCGCAGCAGCAGGACA



GGAGCAAACCGAGCTTTCATGCTCCAGAGCCCAAGCCTCACTATGACCCTGCTGACAGAGCTCGGGAGGT
 TCCCGTGAGAACGACCTCTCGTTCCTCTCCCGTTCCTCTCCCGTTCGGGATTCCCACTGCGAGGGCGGTGGACAG
 CAGAATAGCCAAGCAGGACAGAGAAATCCACCAGCAGTATTGAGCCCCGGCTTCTTTGGGAGAGAGTGG
 AAAAGCTGGTCCCAGGCCAGGCAGTGGCAGCTTTCAGGGTCCAGCAACTCAGGATCCCAGCCTGGCTC
 CCATCCTGGGTCTCAGAGCGGCTCCGGTGAACGCTTCAGAGTGAATCATCATCCAAGTCTGAAGTTCT
 CCATCGCCACGCCAGGAAAGTGCAGCCAAAAAGCCTGACGTAAGAAAGAAGTATTCGGCCTCTCAAGC
 CTGCGGGAGAAGTGGACTTGACTGCGTTGGCCAAAGAGCTTCGAGCAGTGAAGATGTTTCGGCCACCTCA
 CAAAGTAACAGACTACTCATCTCCAGTGAGGAGTCTGGGACCACAGATGAGGAGGAGGACGTGGAA
 CAGGAGGGGGCTGATGATTCTACCTCGGGACCAGAAGACACCAGAGCAGCGTCATCTCCGAACCTGAGCA
 ACGGTGAAACAGAATCTGTGAAAACAATGATCGTTCATGATGATGTAGAAAGTGAGCCAGCCATGACCCC
 GTCCAAGGAGGGCACCTCATCGTCCGCCAGAGTACAGTTGACCAAAAGCGTGCCAGCCATCATGAGAGC
 AATGGCTTTGCGGGTTCGATTACCTCTTGCCAGATCTTTACAGCAAAGCCATTCTCTCCACTTCTCT
 CCACCTTCTCTCCCATCTCCAGCCAGCCGACACCCACCATGTCCCCACAGACACCCAGGACAAGCT
 CACTGCTAATGAGACTCAGTCCGCTAGTAGCACACTCCAGAAACAAAACTTCTCTCTCTTTACACT
 TTTATAGACCCAGGTTACTACAGATCTCTCCATCTAGTGGGACGACAGTGAATTCGGTGGGATTTT
 CCTGTGATGGGCTGAGACCAGAAGCCATAAGGCAAGATCTACTCGGAAAGGCTCAGTGGTCAATGTGAA
 CCCCACGAACACTAGGCCACAGAGTGATACCCCGAGATTCGTAATACAAGAAGAGATTTAACTCAGAG
 ATCCTGTGTGCTGCCTTATGGGGAGTGAACCTGCTGGTGGTACAGAGAGCGGTCTGATGCTCTTGACA
 GAAGTGGCCAAGGGAAAGTATACCTCTGATCAGCCGAAGACGGTTCAGCAAAATGGATGTGCTCGAAGG
 CCTAAATGCTCTGGTGAATAATCTGGCAAAAAGGATAAGTTACGTGTCTACTATTTATCCTGGCTAAGA
 AATAAGATTCTCATAATGATCCAGAGGTTGAGAAGAAGCAGGGTGGACCACTGTGGGCGACTTGAAG
 GGTGCGTGCACTATAAAGTCGTAATAATGAAAGAATCAAGTTTCTGGTAATTGCTTTGAAGAGTTCTGT
 GGAAGTCTATGCATGGGACCCGAAGCCATACAAAATTTATGGCCTTTAAGTCATTTGGGAAGTCTGTA
 CATAAGCCATTACTGGTGGATCTCACTGTGGAGGAAGGCCAGAGGTTGAAAGTGATCTATGGATCCTGTG
 CGGGATTCCATGCTGTTGATGTGGATTCAGGCTCAGTCTATGACATTTATCTACCAACACATATTAGTG
 TAGCATCAAACCCATGCAATCATTATCTCCCAACACGGATGGGATGGAGCTGCTGGTGTGCTACGAA
 GACGAGGGGGTTTACGTTAACACGTACGGAAGGATCACCAAGGACGTGGTTCTGCAGTGGGAGAGATGC
 CGACATCTGTAGCATATATCCGGTGAATCAGACAATGGGCTGGGAGAGAAGGCAATAGAGATACGATC
 TGTGAAACTGGTCACTTGGATGGTGTATTTATGCACAAAAGGGCTCAGAGACTAAAGTTCTGTGTGAA
 CGCAATGACAAGGTGTTCTTTGCCTCCGCTCGGCTGTTGGCAGCAGCCAGGTCTATTTTCATGACCTTAG
 GCAGGACTTCTTCTGAGCTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001252201
- Insert Size:** 3666 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001252201.1](#), [NP_001239130.1](#)

RefSeq Size: 5581 bp

RefSeq ORF: 3666 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 (3) has multiple differences in the presence and absence of in-frame exons in the central coding region, compared to variant 1, and encodes a shorter isoform (3), compared to isoform 1.