

Product datasheet for **MC229474**

Map4k4 (NM_001252202) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Map4k4 (NM_001252202) 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: >MC229474 representing NM_001252202
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGAACGACTCTCCCGGAAGAGCCTGGTGGACATTGACCTGTCGTCCTGCGGGACCCTGCTGGGA
 TTTTTGAGCTGGTGAAGTGGTTGGAAATGGCACCTATGGACAAGTCTATAAGGGTCGACATGTTAAAC
 GGGTCAGCTGGCCGCATCAAGTTATGGACGTCACCGAGGATGAAGAGGAAGAAATCAAAGTGGAGATA
 AATATGCTGAAGAAGTATTCTCATCATCGAAATATTGCCAGTACTATGGTGCTTTCATTAAAGAAGGCC
 CTCCAGGACATGATGACCAACTCTGGCTTGTATGGAGTTTTGTGGGGCTGGGTCCATCACAGACCTTGT
 GAAGAACACCAAAGGGAACACTCTCAAAGAAGACTGGATTGCTTACATCTCCAGGGAAATCCTCAGGGGA
 TTGGCAGATCTCCATATTCACCACGTTATTCACCGAGATCAAGGGCCAAAATGTGCTGCTGACCGAGA
 ATGCTGAGGTGAACTTGTGTTTTGGTGAAGCGCTCAGCTGGACAGGACGGTTGGACGGAGAAATAC
 GTTCATAGGCACACCCTACTGGATGGCTCCAGAGGTATCGCCTGTGATGAGAACCAGACGCCACTTAC
 GACTACAGAAGTGACCTCTGGTCTGTGGCATCACAGCCATCGAGATGGCTGAAGGGGCCCCCTCTCT
 GTGACATGCATCCAATGAGAGCGCTGTTTCTCATCCCCAGAACCCCTCTCCAGGCTGAAGTCAAAAA
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 GAGCAACTTTTTAAACACCCCTTTCATAAGGGATCAGCCCAATGAAAGGCAGGTTCAATCCAGCTTAAGG
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 GGAGGAGGAGGAGGAAGTGCCTGAGCAGGAGGGAGAGCCAAGTTCATCGTCAATGTGCCTGGAGAGTCA
 ACTCTGCGACGTGATTTCTGAGACTGCAGCAGGAGAACAAGGAGCGGTCTGAGGCTCTGCGGAGACAGC
 AGCTTCTGCAGGAGCAGCAGCTCCGGGAGCAGGAGGAGTATAAGAGGCAGCTGCTGGCTGAGAGGCAGAA
 GCGGATTGAACAGCAGAAAGAACAGAGGAGGCGGCTGGAAGAGCAACAAGAAGAGAACGGGAAGCCAGG
 AGGCAGCAGGAGCGTGAGCAGCGCGGCGTGAACAAGAGGAGAAGAGGCGTCTCGAGGAAGTGGAAAGGC
 GCGGTAAGAAGAGGAAGAGAGGAGACGGGCAGAAAGAGGAGAAGAGGAGAGTGGAGAGGGAACAGGAGTA
 CATCAGGCGGACGCTAGAGGAGGAGCAGCGCACCTGGAGATCCTGCAGCAGCAGCTGCTCCAGGAGCAG
 GCCATGTTACTGCACGACCACAGGAGGCCGACGCACAGCAGCAGCCGCCGCCCCCGCAGCAGCAGGACA



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GGAGCAAACCGAGCTTTCATGCTCCAGAGCCCAAGCCTCACTATGACCCTGCTGACAGAGCTCGGGAGGT
GGAAGATAGATTTAGAAAGACTAACACAGCTCCCCTGAGGCCAGGCTAAGCAAACGGGCAGAGGACTG
GAGCCACCCGTGCCTTCCCGGTGAGAGTCTTTTCCAATGGCAACTCCGAGTCTGTGACCCTGCCTGC
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CCCCTGCAGGGCGGTGGACAGCAGAATAGCCAAGCAGGACAGAGAAATCCACCAGCAGTATTGAGCCC
CGGCTTCTTTGGGAGAGAGTGGAAAAGCTGGTCCCAGGCCAGGCAGTGGCAGCTTTCAGGGTCCAGCA
ACTCAGGATCCCAGCCTGGCTCCCATCTGGGTCTCAGAGCGGCTCCGGTGAACGCTTCAGAGTGAATG
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CAGCCATGACCCCGTCCAAGGAGGGCACCTCATCGTCCGCCAGACTCAGTCCGCTAGTAGCACACTCCA
GAAACACAAATCTTCTCTCTTTACACCTTTTATAGACCCAGGTTACTACAGATCTCTCCATCTAGT
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TCGTAATACAAGAAGAGATTTAACTCAGAGATCCTGTGTGCTGCCTTATGGGGAGTGAACCTTGCTGGT
GGTACAGAGAGCGGTCTGATGCTTGGACAGAAGTGGCCAAGGGAAAGTATACCCTCTGATCAGCCGAA
GACGGTTCAGCAAAATGGATGTGCTCGAAGGCCTAAATGTCTGGTGACAATATCTGGCAAAAAGGATAA
GTTACGTGTCTACTATTTATCCTGGTAAGAAAATAGATTCTTCATAATGATCCAGAGGTTGAGAAGAAG
CAGGGGTGGACCACTGTGGGCGACTTGGAAAGGTGCGTGCATATAAAGTCGTAATAATGAAAGAATCA
AGTTTCTGGTAATTGCTTTGAAGAGTCTGTGGAAGTCTATGCATGGGCACCGAAGCCATATCACAAAT
TATGGCCTTTAAGTCATTTGGAGAAGTCTACATAAGCCATTACTGGTGGATCTACTGTGGGGAAGGC
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ATGACATTTATCTACCAACACATATTAGTGTAGCATCAAACCCCATGCAATCATTATCCTCCCCAACAC
GGATGGGATGGAGCTGCTGGTGTGCTACGAAGACGAGGGGGTTTACGTTAACACGTACGGAAGGATCACC
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GCTGGGGAGAGAAGGCAATAGAGATACGATCTGTGAAACTGGTCACTTGGATGGTGTATTTATGCACAA
AAGGGCTCAGAGACTAAAGTTCCTGTGTGAACGCAATGACAAGGTGTTCTTTGCCTCCGCTCCGCTGTT
GGCAGCAGCCAGGCTATTTTCATGACCTTAGGCAGGACTTCTCTCTGAGCTGGTAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001252202
- Insert Size:** 3627 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_001252202.1](#), [NP_001239131.1](#)

RefSeq Size: 5542 bp

RefSeq ORF: 3627 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 (4) lacks multiple in-frame exons in the central coding region, compared to variant 1, and encodes a shorter isoform (4), compared to isoform 1.