

## Product datasheet for **MC229543**

### Map4k4 (NM\_001252200) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Map4k4 (NM\_001252200) 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:** >MC229543 representing NM\_001252200  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGAACGACTCTCCCGGAAGAGCCTGGTGGACATTGACCTGTCGTCCTGCGGGACCCTGCTGGGA  
 TTTTGTAGCTGGTGAAGTGGTTGGAAATGGCACCTATGGACAAGTCTATAAGGGTCGACATGTTAAAC  
 GGGTCAGCTGGCCGCATCAAGTTATGGACGTCACCGAGGATGAAGAGGAAGAAATCAAAGTGGAGATA  
 AATATGCTGAAGAAGTATTCTCATCATCGAAATATTGCCAGTACTATGGTGCTTTCATTAAAGAAGGCC  
 CTCCAGGACATGATGACCAACTCTGGCTTGTATGGAGTTTTGTGGGGCTGGGTCCATCACAGACCTTGT  
 GAAGAACACCAAAGGGAACACTCTCAAAGAAGACTGGATTGCTTACATCTCCAGGGAAATCCTCAGGGGA  
 TTGGCACATCTCCATATTCACCACGTTATTCACCGAGATCAAGGGCCAAAATGTGCTGCTGACCGAGA  
 ATGCTGAGGTGAACTTGTGTTTTGGTGTAAAGCGCTCAGCTGGACAGGACGGTTGGACGGAGAAATAC  
 GTTCATAGGCACACCCTACTGGATGGCTCCAGAGGTCAATCGCTGTGATGAGAACCAGACGCCACTTAC  
 GACTACAGAAGTGACCTCTGGTCTGTGGCATCACAGCCATCGAGATGGCTGAAGGGGCCCTCTCTCT  
 GTGACATGCATCCAATGAGAGCGCTGTTTCTCATCCCCAGAACCCCTCTCCAGGCTGAAGTCAAAAAA  
 ATGGTCAAAGAAATTTTTCAGCTTTATAGAAGGCTGTCTGGTGAAGAATTACATGCAGCGGCCCTTACA  
 GAGCAACTTTTTAAACACCCCTTTCATAAGGGATCAGCCCAATGAAAGGCAGGTTTCAATCCAGCTTAAGG  
 ATCACATAGACCGGACCAGAAAGAAGAGAGGGCAGAAAGATGAGACGGAGTACGAGTACAGCGGGAGCGA  
 GGAGGAGGAGGAGGAAGTGCCTGAGCAGGAGGGAGAGCCAAGTTCATCGTCAATGTGCCTGGAGAGTCA  
 ACTCTGCGACGTGATTTCTGAGACTGCAGCAGGAGAACAAGGAGCGGTCTGAGGCTCTGCGGAGACAGC  
 AGCTTCTGCAGGAGCAGCAGCTCCGGGAGCAGGAGGAGTATAAGAGGCAGCTGCTGGCTGAGAGGCAGAA  
 GCGGATTAACAGCAGAAAGAACAGAGGAGGCGGCTGGAAGAGCAACAAGAAGAGAACGGGAAGCCAGG  
 AGGCAGCAGGAGCGTGAGCAGCGCGGCGTGAACAAGAGGAGAAGAGGCGTCTCGAGGAAGTGGAAAGGC  
 GCGGTAAGAAGAGGAAGAGAGGAGACGGGCAGAAAGAGGAGAAGAGGAGAGTGGAGAGGGAACAGGAGTA  
 CATCAGGCGGACGCTAGAGGAGGAGCAGCGCACCTGGAGATCCTGCAGCAGCAGCTGCTCCAGGAGCAG  
 GCCATGTTACTGCACGACCACAGGAGGCCGACGCACAGCAGCAGCCGCCGCCCCCGCAGCAGCAGGACA



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GGAGCAAACCGAGCTTTCATGCTCCAGAGCCCAAGCCTCACTATGACCCTGCTGACAGAGCTCGGGAGGT
GGAAGATAGATTTAGAAAGACTAACACAGCTCCCCTGAGGCCAGGCTAAGCAAACGGGCAGAGGACTG
GAGCCACCCGTGCCTTCCCGGTGAGAGTCTTTTCCAATGGCAACTCCGAGTCTGTGACCCCTGCCCTGC
AGAGACCAGCGGAGCCACAGGTACAGTGGTCCCACCTGGCATCTCTCAAGAAATGTCTCCCCTGTCTC
GAGATCCCATTCCCTCAGTGACCCTTCTCCAAATTCGCACACCACCATCTCCGCTCTCAGGACCCATGT
CCACCTTCCCGCAGTGAGGGGCTCAGTCAGAGCTGACTCTAAGTCGGAGGTGCCGAGCCACCCAAA
AGGCTTGGTCTAGATCAGACAGTACGAGGTGCCTCCAAGGGTCCCGTGAGAACGACCTCTCGTTCCCC
TGTCTCTCCCGTCGGGATTCCCCTGACAGGGCGGTGGACAGCAGAATAGCCAAGCAGGACAGAGAAAT
TCCACCAGCAGTATTGAGCCCGGCTTCTTTGGGAGAGAGTGAAAAGCTGGTCCCAGGCCAGGCAGTG
GCAGCTCTCAGGGTCCAGCAACTCAGGATCCCAGCCTGGCTCCCATCCTGGGTCTCAGAGCGGCTCCGG
TGAACGCTTCAGAGTGAGATCATCATCAAGTCTGAAGTTCTCCATCGCCACGCCAGGAAAGTGCAGCC
AAAAAGCCTGACGATAAGAAAGAAGTATCCGGCCTCTCAAGCCTGCGGGAGAAGTGACTTGACTGCGT
TGGCCAAAGAGCTTCGAGCAGTGAAGATGTTCCGGCCACCTCACAAAGTAAACAGACTACTCATCTCCAG
TGAGGAGTCTGGGACCACAGATGAGGAGGAGGAGACGTGGAACAGGAGGGGGCTGATGATTCTACCTCG
GGACCAGAAGACACCAGAGCAGCGTCATCTCCGAACCTGAGCAACGGTGAACAGAACTGTGAAAACAA
TGATCGTTCATGATGATGTAGAAAAGTGAGCCAGCCATGACCCCGTCCAAGGAGGGCACCCCTCATCGTCCG
CCAGACTCAGTCCGCTAGTAGCACACTCCAGAAACACAAATCTTCTCCTCCTTTACACCTTTTATAGAC
CCCAGGTTACTACAGATCTCTCCATCTAGTGGGACGACAGTGACTTCCGTGGTGGGATTTTCTGTGATG
GGCTGAGACCAGAAGCCATAAGGCAAGATCCTACTCGGAAAGGCTCAGTGGTCAATGTGAACCCACGAA
CACTAGGCCACAGAGTGATACCCCGGAGATTCGTAATAACAAGAAGAGATTTAACTCAGAGATCCTGTGT
GCTGCCTTATGGGAGTGAACCTTGCTGGTTGGTACAGAGAGCGGTCTGATGCTCTGGACAGAAGTGGCC
AAGGAAAAGTATACCCTCTGATCAGCCGAAGACGGTCCAGCAATGGATGTGCTCGAAGGCCTAAATGT
CCTGGTGACAATATCTGGCAAAAAGGATAAGTTACGTGTCTACTATTTATCCTGGCTAAGAAATAAGATT
CTTCATAATGATCCAGAGGTTGAGAAGAAGCAGGGGTGGACCACTGTGGGCGACTTGGAAGGGTGGCTGC
ACTATAAAGTCGTAATAATGAAAGAATCAAGTTTCTGGTAATTGCTTTGAAAGTTCTGTGGAAGTCTA
TGCATGGGACCCGAAGCCATATCACAAATTTATGGCCTTTAAGTCATTTGGAGAAGTGTACATAAGCCA
TTACTGGTGGATCTCACTGTGGAGGAAGGCCAGAGGTTGAAAGTATGATCTATGGATCCTGTGCGGGATTCC
ATGCTGTTGATGTGGATTGAGGCTCAGTCTATGACATTTATCTACCAACACATATTCAGTGTAGCATCAA
ACCCCATGCAATCATTATCCTCCCAACACGGATGGGATGGAGCTGCTGGTGTGCTACGAAGACGAGGGG
GTTTACGTTAACACGTACGGAAGGATCACCAAGGACGTGGTCTGCAGTGGGAGAGATGCCGACATCTG
TAGCATATATCCGGTCAATCAGACAATGGGCTGGGAGAGAAGGCAATAGAGATACGATCTGTGGAAC
TGGTCACTTGGATGGTGTATTTATGCACAAAAGGGCTCAGAGACTAAAGTTCTGTGTGAACGCAATGAC
AAGGTGTTCTTTGCCCTCCGCTCTGGTGGCAGCAGCCAGGTCTATTTTCATGACCTTAGGCAGGACTT
CTCTTCTGAGCTGGTAG
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001252200

**Insert Size:**

3867 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001252200.1</u> , <u>NP_001239129.1</u>
<b>RefSeq Size:</b>	5782 bp
<b>RefSeq ORF:</b>	3867 bp
<b>Locus ID:</b>	26921
<b>UniProt ID:</b>	<u>P97820</u>
<b>Cytogenetics:</b>	1 B
<b>Gene Summary:</b>	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 (1) represents the longest transcript and encodes the longest isoform (1).