

Product datasheet for **SC112674**

MAP3K8 (NM_005204) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAP3K8 (NM_005204) Human Untagged Clone
Tag: Tag Free
Symbol: MAP3K8
Synonyms: AURA2; c-COT; COT; EST; ESTF; MEKK8; Tpl-2; TPL2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005204 edited
 ATGGAGTACATGAGCACTGGAAGTGACAATAAAGAAGAGATTGATTTATTAATTAACAT
 TTAAATGTGTCTGATGTAATAGACATTATGGAAAATCTTTATGCAAGTGAAGAGCCAGCA
 GTTTATGAACCCAGTCTAATGACCATGTGTCAAGACAGTAATCAAACGATGAGCGTTCT
 AAGTCTCTGCTGCTTAGTGGCCAAGAGGTACCATGGTTGTCATCAGTCAGATACGAACT
 GTGGAGGATTTGCTTGTCTTTGCAAACCATATATCCAACACTGCAAAGCATTTTTATGGA
 CAACGACCACAGGAATCTGGAATTTTATTAACATGGTCATCACTCCCCAAAATGGACGT
 TACCAAATAGATTCCGATGTTCTCCTGATCCCCTGGAAGCTGACTTACAGGAATATTGGT
 TCTGATTTTATTCCTCGGGCGCCTTTGGAAAGGTATACTTGGCACAAGATATAAAGACG
 AAGAAAAGAATGGCGTGTAAACTGATCCCAGTAGATCAATTTAAGCCATCTGATGTGGAA
 ATCCAGGCTTGTTCGGGCACGAGAACATCGCAGAGCTGTATGGCGCAGTCTGTGGGGT
 GAAACTGTCCATCTCTTTATGGAAGCAGGCGAGGGAGGGTCTGTTCTGGAGAAAATGGAG
 AGCTGTGGACCAATGAGAGAATTTGAAATTATTTGGGTGACAAAGCATGTTCTCAAGGGA
 CTTGATTTTCTACACTCAAAGAAAGTGATCCATCATGATATTAACCTAGCAACATTGTT
 TTCATGTCCACAAAAGCTGTTTTGGTGGATTTTGGCCTAAGTGTCAAATGACCGAAGAT
 GTCTATTTTCTAAGGACCTCCGAGGAACAGAGATTTACATGAGCCCAGAGGTCATCCTG
 TGCAGGGGCCATTCAACCAAAGCAGACATCTACAGCCTGGGGGCCACGCTCATCCACATG
 CAGACGGGCACCCACCCTGGGTGAAGCGCTACCCTCGCTCAGCCTATCCCTCCTACCTG
 TACATAATCCACAAGCAAGCACCTCCACTGGAAGACATTGCAGATGACTGCAGTCCAGGG
 ATGAGAGAGCTGATAGAAGCTTCCCTGGAGAGAAACCCCAATCACCGCCCAAGAGCCGCA
 GACCTACTAAAACATGAGGCCCTGAACCCGCCAGAGAGGATCAGCCACGCTGTCAGAGT
 CTGGACTCTGCCCTTTGGAGCGCAAGAGGCTGCTGAGTAGGAAGGAGCTGGAATTCCT
 GAGAACATTGCTGATTCTTCGTGCACAGGAAGCACCGAGGAATCTGAGATGCTCAAGAGG
 CAACGCTCTCTACATCGACCTCGGGCTCTGGCTGGCTACTTCAATCTTGTTCGGGGA
 CCACCAACGCTTGAATATGGCTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005204 unedited
 AGTCAAATTTGTATAGACTCCTATAGGGCGGCCGCAATTCGCACGAGGCGGGGATGCGG
 GGACCCGCTGTCACTGCGCCTCCCGCTGCCGACGCCGCTGGACGGCCGCACTCTCCCTG
 CCCGAGACCCGATGCAATCTTCTTACCGCGAAGAAGCCAGGGGAATAGGTAGCCACATCT
 TGTTTTGCAGATAAGAAAGGAAGCTAACGCAGTATCTGCAAAGCCAGGAGTCTGACTCAGT
 ACTTTTCTCACTCATGCATACAAAGCAGCTAAAAATGACACAGCTTATTTACCATGCCCC
 TGACACTGCACCTGAGCACTTTATGAGCTTGAACCTGTTAATCCTCACGACCACCTCATG
 AGACTCTCCAGAAAGAGCAACAGTAATGGAGTACATGAGCACTGGAAGTGACAATAAAGA
 AGAGATTGATTTATTAATTAACATTTAAATGTGTCTGATGTAATAGACATTATGGAAAA
 TCTTTATGCAAGTGAAGAGCCAGCAGTTTATGAACCCAGTCTAATGACCATGTGTCAAGA
 CAGTAATCAAACGATGAGCGTTCTAAGTCTCTGCTGCTTAGTGGCCAAGAGGTACCATG
 GTTGTCTCAGTCAGATACGGAAGTGTGGAGGATTTGCTTGTCTTTGCAAACCATATATC
 CAACACTGCAAAGCATTTTTATGGACAACGACCACAGGAATCTGGAATTTTATTAACAT
 GGNTCATCACTCCCAATGGACGTTACCAAATAGATCCGATGTTCTNCCTGACCCCT
 GNAAGCTGACTTACAGGAATATTGGTTCTGATTTTATCCTCGGGGCGCCTTTGAAAGGT
 ATACTTGNCAAGANTTANGACGAAGAAAGAATGGCGTGTAACCTGATCCCAGTAGATC
 ATTTAAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005204 unedited
 NTTTTAGCTTGACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTAGGGGAAAATCCGGAATTTT
 TCAGGGGTTTGGCCACCCCTTTGGACAAAAGTTTGGGGTTTTTTTGGCATAAGGGAAA
 AACATTCTTTACATAAACTCCCCACATCTTTACAAGGGTCCAATTTTTTTTTTTGTTA
 AAAAATCTTGAGGGCTTTTGATTTAAAACATCCCAGTTTGCTTTTTTAAATATCCAAAG
 GCTTAAAAAAAATTTATTTCTTAAAAATTCAAAATCTTCAATTTTTTACAAAAGTTTTT
 TTTTTTTTAAAGGGGCACATTCTTCTTCCCTTGGGGAGGAACAAAAATTTGGGGTTTACCC
 AGTTTTTTCCCTTTAAAAACATCCCGTTTTGAAGTTTTTACCATAGCAGGGCCAGTAA
 AAAAGGTTTCCATAGGAACCCAAAAAAACTGGCCCTAGGGGCGGGTGGCAAAGGGCTT
 TTAATTCATCAGTTACCTTTTTTAGGACCCTAGCCAGTTTTTTGCTCCAATTTTAAAG
 GGGTTTTAGCCCCCAAATTTTAAAGGAATCAATGGTTCCAAAAATTTCCAATAAGGGC
 TCAAAGGGTTTTTTATTTTCCCCATTTTCCCAAACCGTTTTTCTGGAAAAAAGGAAT
 TTTCCCTTCTTAAATAAAAACCAAAAAATAGGATTTTGGGCTCCCTTTTTACCCTGTGG
 AAGGGGATTTTTTAAATTTGGGACCAAGGGCCAGGGAATGAAACAATTCGAAACCCAA
 TCCTTGTGGGAACCTAAAATTCCCGCTAAAAACCCGCCCCCTGAAAAAGAGAACCTGG
 AAACCTGGGGCTATTAAGGCTTCCCTGTTAAACCCAG

Restriction Sites:

NotI-NotI

ACCN:

NM_005204

Insert Size:

2870 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_005204.2](#), [NP_005195.2](#)

RefSeq Size: 3096 bp

RefSeq ORF: 1404 bp

Locus ID: 1326

UniProt ID: [P41279](#)

Cytogenetics: 10p11.23

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Gene Summary:

This gene is an oncogene that encodes a member of the serine/threonine protein kinase family. The encoded protein localizes to the cytoplasm and can activate both the MAP kinase and JNK kinase pathways. This protein was shown to activate I κ B kinases, and thus induce the nuclear production of NF- κ B. This protein was also found to promote the production of TNF- α and IL-2 during T lymphocyte activation. This gene may also utilize a downstream in-frame translation start codon, and thus produce an isoform containing a shorter N-terminus. The shorter isoform has been shown to display weaker transforming activity. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2011]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1-3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.