

## Product datasheet for **MC216294**

### Map3k8 (NM\_007746) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k8 (NM_007746) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Map3k8
Synonyms:	c-COT; Cot; Cot/Tpl2; Est; Estf; Tpl-2; Tpl2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216294 representing NM\_007746  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTACATGAGCACTGGAAGTGACGAGAAAGAAGAAATTGATTTATTAATTAAGCATTAAACGTGT  
 CAGAAGTCATAGACATAATGGAGAACCTTTATGCAAGTGAAGAGCCAGGAGTGTATGAGCCAGTCTGAT  
 GACCATGTATCCAGACAGCAATCAAAATGAGGAACGTTTCGGAGTCACTGCTTCGGAGTGGCCAGGAGTT  
 CCCTGGCTGTCATCTGTGAGATATGGGACCGTGGAGGATCTGCTTGCATTTGCAAACCATGTCTCCAATA  
 TGACAAAGCATTTTTATGGACGTCGACCACAAGAATGTGGAATTTTATTAATATGGTAATCAGTCCCA  
 GAATGGCCGCTACCAATCGATTTCGGATGTTCTCCTTGTCTTGGAAAGCTGACATACAGGAACATCGGC  
 TCTGGTTTCGTTCTCGGGGGCCTTTGGAAAAGTATACTTAGCCCAAGACATGAAGACAAAGAAAAGAA  
 TGGCGTGCAAACGATCCCTATAGATCAGTTTAAAGCCATCGGATGTGGAATCCAGGCCTGTTCCGGCA  
 TGAGAACATTGCTGAGTTATATGGTGCCGCTCTATGGGGCGATACTGTCCATCTCTTTATGGAAGCCGGC  
 GAGGGAGGGTCTGTTCTGGAGAACTGGAGAGTTGTGGGCCATGAGAGAATTTGAAATTTTGGGTGA  
 CGAAGCACATTCTCAAGGACTTGATTTTCTGCACTCCAAGAAAGTGATCCACCATGATATTAACCTAG  
 CAACATTGTATTCATGTCTACAAAAGCTGTTTTGGTAGATTTTGGCCTGAGTGTTAAGATGACTGAAGAT  
 GTCTATCTTCCCAAGGACCTCCGGGGAACAGAGATATACATGAGCCAGAGGTGATCCTATGTCGGGGCC  
 ATTCCACAAAAGCCGACATCTACAGCCTTGAGCCACACTCATCCACATGCAGACAGGCACCCACCCCTG  
 GGTGAAGCGCTACCCTCGATCAGCCTATCCCTCTACCTATACATTATCCACAAGCAGGCACCTCCCCTG  
 GAAGACATCGCTGGTACTGCAGTCCAGGCATGAGGGAGCTGATAGAAGCTGCCCTGGAGAGGAACCCCA  
 ACCACCGCCCAAGCAGCAGACTACTGAAACATGAAGCCCTGAATCCCCCAAGAGAGGACCAGCCACG  
 ATGTCAGAGTCTGGACTCTGCCCTCTTTGAACGGAAGAGGCTGCTGAGCAGGAAGGAACTACAACCTCCT  
 GAGAACATTGCTGATTCATCATGCACAGGCAGCACCGAAGAGTCTGAAGTCTCAGGAGACAGCGTTCCC  
 TCTACATTGACCTCGGAGCTCTGGCTGGCTACTTCAATATTGTTTCGTGGGCCACCAACCCTGGAATACGG  
 CTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_007746

**Insert Size:** 1404 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\\_007746.2](#), [NP\\_031772.1](#)

RefSeq Size: 2507 bp

RefSeq ORF: 1404 bp

Locus ID: 26410

UniProt ID: [Q07174](#)

Cytogenetics: 18 2.73 cM

**Gene Summary:** Required for lipopolysaccharide (LPS)-induced, TLR4-mediated activation of the MAPK/ERK pathway in macrophages, thus being critical for production of the proinflammatory cytokine TNF-alpha (TNF) during immune responses. Involved in the regulation of T-helper cell differentiation and IFNG expression in T-cells. Involved in mediating host resistance to bacterial infection through negative regulation of type I interferon (IFN) production. Transduces CD40 and TNFRSF1A signals that activate ERK in B-cells and macrophages, and thus may play a role in the regulation of immunoglobulin production. May also play a role in the transduction of TNF signals that activate JNK and NF-kappa-B in some cell types. In adipocytes, activates MAPK/ERK pathway in an IKBKB-dependent manner in response to IL1B and TNF, but not insulin, leading to induction of lipolysis. Plays a role in the cell cycle. [UniProtKB/Swiss-Prot Function]