

## Product datasheet for **RC211171**

### MAP3K8 (NM\_005204) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K8 (NM_005204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP3K8
Synonyms:	AURA2; c-COT; COT; EST; ESTF; MEKK8; Tpl-2; TPL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC211171 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTACATGAGCACTGGAAGTGACAATAAAGAAGAGATTGATTTATTAATTAACATTTAAATGTGT  
 CTGATGTAATAGACATTATGAAAAATCTTTATGCAAGTGAAGAGCCAGCAGTTTATGAACCCAGTCTAAT  
 GACCATGTGTCAAGACAGTAATCAAACGATGAGCGTTCTAAGTCTCTGCTGCTTGTAGTGCCAAAGAGGTA  
 CCATGGTTGTCATCAGTCAGATATGGAAGTGTGGAGGATTTGCTTGTCTTTGCAAACCATATATCCAACA  
 CTGCAAAGCATTTTTATGGACAACGACCACAGGAATCTGGAATTTATTAACATGGTCACTACTCCCA  
 AAATGGACGTTACCAAATAGATTCGATGTTCTCCTGATCCCCTGGAAGCTGACTTACAGGAATATTGGT  
 TCTGATTTTATTCCTCGGGGCGCCTTTGGAAAGGTATACTTGGCACAAGATATAAAGACGAAGAAAAGAA  
 TGCGGTGTAAGCTGATCCAGTAGATCAATTTAAGCCATCTGATGTGAAATCCAGGCTTGCTTCCGGCA  
 CGAGAACATCGCAGAGCTGATGGCGCAGTCTGTGGGTGAAACTGTCCATCTCTTTATGGAAGCAGGC  
 GAGGGAGGGTCTGTTCTGGAGAACTGGAGAGCTGTGGACCAATGAGAGAATTTGAAATTTTGGGTGA  
 CAAAGCATGTTCTCAAGGACTTGATTTCTACTCAAAAGAAAGTGATCCATCATGATATTAACCTAG  
 CAACATTGTTTTCATGTCCACAAAAGCTGTTTTGGTGGATTTTGGCCTAAGTGTTCAAATGACCGAAGAT  
 GTCTATTTTCTAAGGACCTCCGAGGAACAGAGATTTACATGAGCCCAGAGGTCATCCTGTGCAGGGGCC  
 ATTCAACCAAAGCAGACATCTACAGCCTGGGGGCCACGCTCATCCACATGCAGACGGGCACCCACCCCTG  
 GGTGAAGCGCTACCCTCGCTCAGCCTATCCCTCCTACCTGTACATAATCCACAAGCAAGCACCTCCACTG  
 GAAGACATTGCAGATGACTGCAGTCCAGGGATGAGAGAGCTGATAGAAGCTTCCCTGGAGAGAAACCCCA  
 ATCACCGCCCAAGAGCCGAGACCTACTAAAACATGAGGCCCTGAACCCGCCAGAGAGGATCAGCCACG  
 CTGTCAGAGTCTGGACTCTGCCCTCTGGAGCGCAAGAGGCTGCTGAGTAGGAAGGAGCTGGAACCTCCT  
 GAGAACATTGCTGATTCTTCGTGCACAGGAAGCACCGAGGAATCTGAGATGCTCAAGAGGCAACGCTCTC  
 TCTACATCGACCTCGGCCTCTGGCTGGCTACTTCAATCTTGTTCCGGGACCACCAACGCTTGAATATGG  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC211171 protein sequence  
 Red=Cloning site Green=Tags(s)

MEYMSTGSDNKEEIDLLIKHLNVSDVIDIMENLYASEEPAVYEPSLMTMCQDSNQNDERSKSLLLSGQEV  
 PWLSSVRYGTVEDLLAFANHISNTAKHFYGRPQESGILLNMVITPQNGRYQIDSVDVLLIPWKLTYRNIG  
 SDFIPRGAFGKVYLAQDIKTKRMACKLIPVDQFKPSDVEIQACFRHENIAELYGAVLWGETVHLFMEAG  
 EGGSVLEKLESCGPMREFEIIWVTKHVLKGLDFLHKKVIHHDIKPSNIVFMSTKAVLVDFGLSVQMTED  
 VYFPKDLRGTEIYMSPEVILCRGHSTKADIYSLGATLIHMQTGTPPWVKRYPRSAVPSYLYIIHKQAPPL  
 EDIADDCSPGMRELIEASLERNPNHRPRAADLLKHEALNPPREDQPRCQSLDSALLERKRLLSRKELELP  
 ENIADSSCTGSTESEMLKRQRSLYIDL GALAGYFNLVRGPPTLEYG

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6130\\_f04.zip](https://cdn.origene.com/chromatograms/mk6130_f04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:**

NM\_005204

**ORF Size:**

1401 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](mailto: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](#)

**OTI Annotation:**

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:**

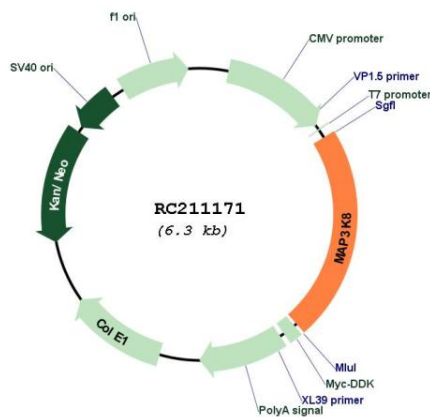
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

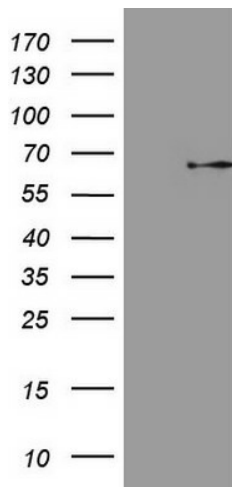
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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:	<a href="#">NM_005204.4</a>
RefSeq Size:	3013 bp
RefSeq ORF:	1404 bp
Locus ID:	1326
UniProt ID:	<a href="#">P41279</a>
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
MW:	52.9 kDa
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 kappaB kinases, and thus induce the nuclear production of NF-kappaB. This protein was also found to promote the production of TNF-alpha 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]

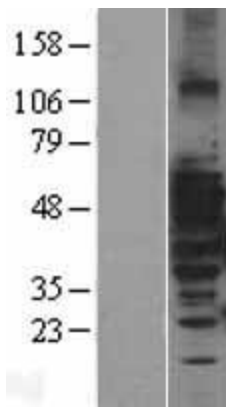
### Product images:



Circular map for RC211171



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAP3K8 (Cat# RC211171, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAP3K8 (Cat# [TA808427])(1:2000). Positive lysates [LY401593] (100ug) and [LC401593] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401593]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211171 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).