

## Product datasheet for **SC323633**

### 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:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC323633 sequence for NM\_005204 edited (data generated by NextGen Sequencing)

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ATGGAGTACATGAGCACTGGAAGTGACAATAAAGAAGAGATTGATTTATTAATTAACAT
TAAATGTGTCTGATGTAATAGACATTATGGAAAATCTTTATGCAAGTGAAGAGCCAGCA
GTTTATGAACCCAGTCTAATGACCATGTGTCAAGACAGTAATCAAACGATGAGCGTTCT
AAGTCTCTGCTGCTTAGTGGCCAAGAGGTACCATGGTTGTATCAGTCAGATACGGAAT
GTGGAGGATTTGCTTTGCTTTTGCACAAACCATATATCCAACACTGCAAAGCATTTTTATGGA
CAACGACCACAGGAATCTGGAATTTTATTAACATGGTCATCACTCCCCAAAATGGACGT
TACCAAATAGATTCCGATGTTCTCCTGATCCCCTGGAAGCTGACTTACAGGAATATTGGT
TCTGATTTTATTCTCGGGGCGCCTTTGGAAAGGTATACTTGGCACAAGATATAAAGACG
AAGAAAAGAAATGGCGTGTAACTGATCCCAGTAGATCAATTTAAGCCATCTGATGTGGAA
ATCCAGGCTTGCCTCCGGCAGGAAACATCGCAGAGCTGTATGGCGCAGTCTGTGGGGT
GAAACTGTCCATCTTTATGGAAGCAGGCGAGGGAGGGTCTGTTCTGGAGAACTGGAG
AGCTGTGGACCAATGAGAGAATTTGAAATTTTGGGTGACAAAGCATGTTCTCAAGGGA
CTTGATTTTCTCACTCAAAGAAAGTGATCCATCATGCCATTAACCTAGCAACATTGTT
TTCATGTCCACAAAAGCTGTTTTGGTGGATTTTGGCCTAAGTGTTCAAATGACCGAAGAT
GTCTATTTTCTAAGGACCTCCGAGGAACAGAGATTTACATGAGCCAAGAGGTATCCTG
TGCAGGGGCCATTCAACCAAAGCAGACATCTACAGCTGGGGGCCACGCTCATCCACATG
CAGACGGGCACCCACCTGGGTGAAGCGCTACCTCGCTCAGCCTATCCCTCCTACCTG
TACATAATCCACAAGCAAGCACCTCCACTGGAAGACATTCAGATGACTGCAGTCCAGGG
ATGAGAGAGCTGATAGAAGCTTCCCTGGAGAGAAACCCAATCACCGCCAAGAGCCGCA
GACCTACTAAAACATGAGGCCCTGAACCCGCGGAGAGAGGATCAGCCACGCTGTCAGAGT
CTGGACTCTGCCCTTTGGAGCGCAAGAGGCTGCTGAGTAGGAAGGAGCTGGAACCTTCT
GAGAACATTGCTGATTCTTCGTGCACAGGAAGCACCGAGGAATCTGAGATGCTCAAGAGG
CAACGCTCTCTACATCGACCTCGGCGCTCTGGCTGGCTACTTCAATCTTGTTCGGGGA
CCACCAACGCTTGAATATGGCTGA
    
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Clone variation with respect to NM\_005204.3  
 234 t=>c;758 a=>c;759 t=>c;887 c=>a;1173 c=>g

**5' Read Nucleotide Sequence:** >OriGene 5' read for mutant NM\_005204 unedited

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CCGCCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGGGAAGCGGGGA
CCCCTGTCACTGCGCCTCCCGCTGCCGACGCCGCTGGACGGCCGCACTCTCCCTGCCCGAGACCCGAT
GCAATCTTCTTACCGGAAGAAGCCAGGGGAATAGGTAGCCACATCTTGTTCAGATAAGAAAGGAAGC
TAAACGAGTATCTGCAAAGCCAGGAGTCTGACTCAGTACTTTTTCTCACTCATGCATACAAAGCAGCTAA
GAAATGACACAGCTTTATTTTACCATGCCCTTGACACTGGCACTGGAGCACTTTTATGAGCCTGGACC
TCGGGTTAATTCCTCCACAACCCCTCAGGAAAACCTCCAGGAAAAAAGCACCAAGGATGGGAATACA
CATAGCACACTGAAGTTTAAAAATAAGAAAAGAAAATGGATTTATTTAATTAACATTAAAAAGTGGTG
TTGAGAGGTAATAAACTTTAGGAAAAATCTTTTGGCGGTGTAAGACCCGCCATTTTAAAGACCCAG
TCAAAGAGCATAGTGGTCAAGACGGTACCAACCGGATGGAGCTTTTATAGCTCCTGCTGGGGATTGGGGCC
AAAAAGGCCCGGGGTTGGTAACATTTAAATACCAGCACTGGGGGGGTTTTGTGTTTTTTTTGACAC
CCTATTCCTCAACCGGTGAAAATTTTTTTGGGGGCCACCCCGGGGCTTGGGGTATTTTTATAACGT
GGGGCCCTCCCCCAGGAGGGGTCTTCAAAAATACCTACGGTGTCTCGTACACCCGCGAGCAGACT
TTCTAGAGAGATATGTGTCACTATTCATCGCGCGCCCTCGTGAGATGTCTGTCTGCGCATATAGCAGA
CAAAGCGTGTGAGATCGCTCCATCAGTATCACTGCTGATGATGAGCAGCGCTGCG
    
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<b>Kinase Domain Sequence:</b>	>SC323633 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GWCTGGACTGMTTAAGGATATTGGTTCTGATTTTATTCTCGGGGCGCCTTTGGAAAGGTATACTTGGCA CAAGATATAAAGACGAAGAAAAGAATGGCGTGAACTGATCCCAGTAGATCAATTTAAGCCATCTGATG TGGAAATCCAGGCTTGCTTCCGGCACGAGAACATCGCAGAGCTGTATGGCGCAGTCTGTGGGGTAAAC TGTCCATCTCTTTATGGAAGCAGGCGAGGGAGGGTCTGTTCTGGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005204
<b>Insert Size:</b>	2870 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." <a href="#">Cell, 2008 May p536-548.</a>
<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>	<a href="#">NM_005204.2</a> , <a href="#">NP_005195.2</a>
<b>RefSeq Size:</b>	3096 bp
<b>RefSeq ORF:</b>	1404 bp
<b>Locus ID:</b>	1326

<b>UniProt ID:</b>	<a href="#">P41279</a>
<b>Cytogenetics:</b>	10p11.23
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	MAPK signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway
<b>Gene Summary:</b>	<p>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<math>\kappa</math>B kinases, and thus induce the nuclear production of NF-<math>\kappa</math>B. This protein was also found to promote the production of TNF-<math>\alpha</math> 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]</p> <p>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.</p>