

Product datasheet for **SC117227**

MAP3K13 (NM_004721) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP3K13 (NM_004721) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP3K13
Synonyms:	LZK; MEKK13; MLK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_004721 edited
ATGGCCAACCTTCAGGAGCACCTGAGCTGCTCCTTCTCCACACTTACCCTTCAGTGAA
AGCAAAACCTTCAATGGACTACAAGATGAGCTCACAGCTATGGGGAACCACCTTCTCCC
AAGCTGCTCGAGGACCAGCAGGAAAAGGGGATGGTACGAACAGAGCTAATCGAGAGCGTG
CACAGCCCCGTACCACAACAGTGTGACGAGCGTAAGTGAGGATTCCAGGGACCAAGTTT
GAGAACAGCGTTCTTCAGCTAAGGGAACACGATGAATCAGAGACGGCGGTGTCTCAGGGG
AACAGCAACACGGTGGACGGAGAGACACAAGCGGAACCTGAAGACATAAAGATTCCAGTT
AGCAGGTCAGGCAGTGGCAGTGGTGGTTTCTTGAAGGACTATTTGGATGCTTAAGCCT
GTATGGAATATCATTGGGAAGGCATATTCCACTGATTACAAATTGCAGCAGCAAGATACT
TGGGAAGTGCCATTTGAGGAGATCTCAGAGCTGCAGTGGCTGGTGTAGTGGAGCCCAAGGA
GCGGTCTTCTGGGCAAGTTCGGGGCGAAGAGGTGGCCATCAAGAAAGTGAGAGAACAG
AATGAGACGGATATCAAGCATTTGAGGAAGTTGAAGCACCTAACATCATCGCATTCAAG
GGTGTGTGACTCAGGCCCATGTTATTGTATTATCATGGAATACTGTGCCCATGGACAA
CTCTACGAGGTCTTACGAGCTGGCAGGAAGATCACACCTCGATTGCTAGTAGACTGGTCC
ACAGGAATTGCAAGTGAATGAATTTATTTGCACCTCCATAAAAATTATTCATCGTGATCTC
AAATCACCTAATGTTTTAGTGACCCACACAGATGCGGTAAAAATTCAGATTTTGGTACA
TCTAAGGAACTCAGTGACAAAAGTACCAAGATGTCATTTGCTGGCACGGTCGCATGGATG
GCGCCAGAGGTGATACGGAATGAACCTGTCTCTGAAAAAGTTGATATATGGTCTTTTGG
GTGGTGTCTTGGGAGCTGCTGACAGGAGAGATCCCTTACAAAGATGTAGATTCTTCAGCC
ATTATCTGGGGTGTGGAAGCAACAGCCTCCACCTCCAGTTCCTTCCACTTGCCTGAT
GGATTCAAAATCCTTATGAAACAGAGCTGGCAGAGTAACTCGAAACCGACCTTCTTTT
CGGCAGACACTCATGCATTTAGACATTGCCTCTGCAGATGACTTGCCACCCACAAGAA
ACTTACTTCAAGTCTCAGGCTGAATGGAGAGAAGAAGTGAACAAAACATTTTGAGAAGATC
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GACTTTGCCGCAATCTTGAACCAACAGCCAGCCAGGAAAATTCACCCCATCCCCTTAC
CTGCACCAAGCTCAATCCCAATACCCTTCTTTCATCACCATAATTCTCTGCAGCAGCAA
TACCAGCAGCCCCCTCCTGCCATGTCCCAGAGTACCATCCCAGACTCAATATGCACGGA
CAGGACATAGCAACCTGCGCCAACAACCTGAGGTATTTCCGGCCAGCAGCAGCCCTGCGG
AGCCCACTCAGCAACCATGCTCAGAGACAGTGCCTGGCTCGAGCCCTGACCTCATCTCC
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CCAGCACATAATCCTCTCTTGGAAAACGCCAGAGTTCTGAGAAAACGGAAGAAAATGAA
TTCAGCGGCTGTAGTCTGAGTCATCCCTCGGCACCTCTCATCTCGGCACCCCTCCAGCG
CTACCTCGAAAAACAAGGCTCTGCAGAAGAGTGGAGATGACTCCTCAGAAGAGGAAGAA
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TCACACTCGGATGGCTCTCTGACAAGGAGTGTCCGTGCGCCGTGTGAAGACTCAGATG
TCTCTGGGCAAGCTGTGTGGAGGAACGTGGCTATGAGAACCCCATGCAGTTTGAAGAA
TCGGACTGTGACTCTTTCAGATGGGGAGTGTCTGATGCCACAGTTAGGACCAATAAACAC
TACAGCTCTGCTACCTGGTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004721 unedited
 GGCGGCCGGCAATTCGCACGAGGATGGAACAGCATGTGTAGGAATTCCTCGTTGTTGTT
 TTGGAGCCCTCTCTTAAGTCAGAACTCTGTCCCAAAAATCTTCTGAGTGTATCTCAGGA
 CTTTGGTTATACTCATGGCAGATGGCCAACCTTCAGGAGCACCTGAGCTGCTCCTCTTC
 TCCACACTTACCCTTCAGTAAAAGCAAAACCTTCAATGGACTACAAGATGAGCTCACAGC
 TATGGGGAACCACTTCTCCAAAGCTGCTCGAGGACCAGCAGGAAAAGGGGATGGTACG
 AACAGAGCTAATCGAGAGCGTGCACAGCCCGTCACCACAACAGTGTGACGAGCGTAAG
 TGAGGATTCCAGGACCAGTTTGAGAACAGCGTTCTTCAGCTAAGGGAACACGATGAATC
 AGAGACGGCGGTGCTCAGGGAACAGCAACACGGTGGACGGAGAGAGCAAGCGGAAC
 TGAAGACATAAGATTTCAGTTCAGCAGGTGAGCAGTGGCAGTGGTGGGTTTCTTGAAGG
 ACTATTTGGATGCTTAAGCCTGTATGGAATATCATTGNGAAGGCATATCCACTGATTA
 CAAATTGCAGCAGCAAGATACTTGGGGAAGTGCCATTTGAGGGAGATCTCAGAGCTGCAG
 TGGCTGGGTAGTGGAGCCAGGGAGCGGGTCTCTTGGGNCAGTCCGGGCGGAAAAGGT
 GCCATCAAGAAAGTGAGAGAACAGAATGAGACGGATATCAAGCATTGGAGGAAAGTGAA
 GCACCCTTACATCATCGCATCNAAGGGTTGTTTGTACTCAGGCCCATGNNTATTGNATT
 ATCATGGAATAACTGTGCCCATGGACACTTTTTACGAGGTCTAACGAGCTGGCAGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004721 unedited
 GGCGGTAGTACTCTTTTTGATATATAGTTCACCTTTGCAGTACAAAGTGTAAAATGT
 CAAACAAAATAAATATCAATGTTACAGTAGCTAGAATATTCAATAAAAATAGATCCCTGC
 CATTCTTGATTGAAATGTTTCAGTGCAGCTTAATTTTCAATTTGGATATTATTTCCAGAGAT
 TTGCGAAGTCTCATGTTCTGTTATTGCAGCTCATTTCTAGGGGTGGTAAAGATGGGGT
 AGTCTCTCTTCCAGACAAAATGCTGGGAGAGAGTGGGATGAGTCTGGGGTGGGGTGGG
 TCTGAAATGCCAGTATAGTCACGAGATCTTCAGGATGTGTATTCTTCATTACCAGGTAG
 CAGAGCTGTAGTGTATTGGTCCCTAACTGTGGCATCAGAACACTCCCCATCTGAAGAGT
 CACAGTCCGATTCTCAAAGTGCATGGGGTTCTCATAGCCACGTTCTCCACACACAGCT
 TGCCCAGAGACATCTGAGTCTTACACGGCGCACGGCACACTCTTGTGACAGAGCCCAT
 CCGAGTGTGAGGATATGTCAATGGGAATCTCTGGCGTCTGGGACAGCAGGTCGTCTAGCT
 TCTCTGCCAAGCGCCTTCAAGTTTATCAGCTAACTCATCAGGACTGTTTGTAGTGGTAC
 TGGTATTTCCCTCTTCTCATCAGACACAGAGAAATCTCAGAGCTAAAGGCTGAATATGA
 CTGGACCTGCTGATACAGCGATGGGGCCCTCTTGCTTCTCGTGAATTCAACTTCACTAT
 CTATTTCCCTTCTTCTCTCCTGAGGAGTCATCTCCCTCTTTCTGCCAGCCTGTTTTT
 TCCAAGTACCGCCTGGCAGGGCGCCCACTAGAACAGCGCCCAAGCCAGACTTCCACCTCC
 CNCCGCGTATTATTTCTTTCCGTTTTTCAAAGTTCGCGGTTTCCAAGAAAGGCATATT
 CCTGAGACTCGCAAGCCAGGCTCCCTCCCTGGCTCCAAGGTAT

Restriction Sites:

NotI-NotI

ACCN:

NM_004721

Insert Size:

3600 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:	<ol style="list-style-type: none">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:	<u>NM_004721.3, NP_004712.1</u>
RefSeq Size:	3568 bp
RefSeq ORF:	2901 bp
Locus ID:	9175
UniProt ID:	<u>O43283</u>
Cytogenetics:	3q27.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	MAPK signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of serine/threonine protein kinase family. This kinase contains a dual leucine-zipper motif, and has been shown to form dimers/oligomers through its leucine-zipper motif. This kinase can phosphorylate and activate MAPK8/JNK, MAP2K7/MKK7, which suggests a role in the JNK signaling pathway. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Both variants 1 and 2 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>