

Product datasheet for **SC323563**

MAP4K3 (NM_003618) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4K3 (NM_003618) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP4K3
Synonyms:	GLK; MAPKKKK3; MEKKK 3; MEKKK3; RAB8IPL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003618, the custom clone sequence may differ by one or more nucleotides

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ATGAACCCGGCTTCGATTTGTCCCGCCGGAACCCGCAGGAGGACTTCGAGCTGATTTCAGCGCATCGGCA
GCGGCACCTACGGCGACGTCTACAAGGCACGGAATGTTAACTGGTGAATTAGCAGCAATTAAGTAAT
AAAATTGGAACCGAGAGAAGACTTTGCAGTTGTGCAGCAAGAAATATTATGATGAAAGACTGTAACAC
CCAAATATTGTTGCTTATTTTGGAAAGCTATCTCAGGCGAGATAAGCTTTGGATTTGCATGGAGTTTTGTG
GAGGTGGTTCTTTACAGGATATTTATCACGTAACCTGGACCTCTGTCAGAAGTGCAAATTGCATATGTTAG
CAGAGAAACACTGCAGGGATTATATTATCTTCACAGTAAAGGAAAAATGCACAGAGATATAAAGGGAGCT
AACATTCTATTAACGGATAATGGTCATGTGAAATTGGCTGATTTTGGAGTATCTGCACAGATAACAGCTA
CAATTGCCAAACGGAAGTCTTTCATTGGCACACCATATTGGATGGCTCCAGAAGTTCAGCTGTTGAGAG
GAAGGGGGGTTACAATCAACTCTGTGATCTCTGGGCAGTGGGAATCACTGCCATAGAAGTTCAGAGCTT
CAGCCTCCTATGTTTGACTTACACCCAATGAGAGCATTATTTCTAATGACAAAAAGCAATTTTCAGCCTC
CTAACTAAAGGATAAAATGAAATGGTCAAATAGTTTTTCATCACTTTGTGAAAATGGCACTTACCAAAAA
TCCGAAAAAAGACCTACTGCTGAAAAATATTACAGCATCCTTTTGTAAACAACATTTGACACGGTCT
TTGGCAATCGAGCTGTTGGATAAAGTAAATAATCCAGATCATTCCAATTACCATGATTTTCGATGATGATG
ATCCTGAGCCTCTGTTGCTGTACCACATAGAATCACTCAACAAGTAGAAAACGTGAGAGAAGAAAAAC
ACGCTCAGAGATAACCTTTGGCCAAGTGAATTTGATCCACCCTTAAGAAAGGAGACAGAACCACATCAT
GAACTCCCGACAGTGATGGTTTTTGGACAGTTCAGAAGAAATATACTACACTGCAAGATCTAATCTGG
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GTCTGTTGAAGAAGAATTGCATCAGCGAGGACAGTTCGCACATTTAGAAGATGATGAAGAGATGATGAT
GAATCAAACTCAACTCTGAAAGCAAAAATCCACCTCCTTTGCCACCAAGCCTAAGTCTATCTTCA
TACCACAGGAAATGCATTCTACTGAGGATGAAAAATCAAGGAACAATCAAGAGATGCCCATGTCCAGGGAG
CCCAGCAAGCCATCCCAAGTCCACCTAGACCACCACCTCCAGATTACCCCCACACAAACCTGTTGCC
TTAGGAAATGGAATGAGCTCCTTCCAGTAAATGGTGAACGAGATGGCTCATTATGTCAACAACAGAATG
AACATAGAGGCACAAACCTTTCAAGAAAAGAAAAGAAAGATGTACCAAAGCCTATTAGTAATGGTCTTCC
TCCAACACCTAAAGTGCATATGGGTGCATGTTTTTCAAAGTTTTTAAATGGGTGTCCTTGAAAATTCAC
TGTGCATCATCATGGATAAACCAGATAACAAGAGATCAGTACTTGATATTTGGTGCCGAAGAAGGGATTT
ATACCCTCAATCTTAATGAACCTCATGAAACATCAATGGAACAGCTATCCCTCGAAGGTGTACATGGTT
GTATGTAATGAACAATTGCTTGCTATCAATATCTGGTAAAGCTTCTCAGCTTTATTTCCATAATTTACCA
GGGCTTTTTGATTATGCAAGACAAATGCAAAAGTTACCTGTTGCTATTCCAGCACACAAACTCCCTGACA
GAATACTGCCAAGGAAATTTTCTGTATCAGCAAAAATCCCTGAAACCAAAATGGTGCCAGAAGTGTGTGT
TGTAAGAAATCCTTACACGGGCCATAAATACCTATGTGGAGCACTTCAGACTAGCATTGTTCTATTAGAA
TGGGTTGAACCAATGCAGAAATTTATGTTAATTAAGCACATAGATTTTCTATACCATGTCCACTTAGAA
TGTTTGAATGCTGGTAGTTCCTGAACAGGAGTACCCTTAGTTTGTGTTGGTGTGAGTAGAGGTAGAGA
CTTCAACCAAGTGGTTCGATTTGAGACGGTCAATCCAAATCTACCTCTCATGGTTTACAGAATCAGAT
ACCCACAGACAAATGTTACTCATGTAACCCAAGTGGAGAGAGATACCATCCTTGATGCTTGGACTGTT
GTATAAAAATAGTAAATCTCAAGGAAGATTAATACTAGCAGGAAATTTGTCATCAGAAGTCAACCTTTGA
TTTCCAGATTGAATCAATAGTGTGCTACAAGACAGTGTGCTAGCTTTCTGGAAACATGGAATGCAAGGT
AGAAGTTTTAGATCTAATGAGGTAAACACAAGAAATTTTCAGATAGCACAAGAAATTTTCAGGCTGCTTGGAT
CTGACAGGGTCTGGTTTTGAAAGTAGGCCAACTGATAACCCACAGCAAAATAGCAATTTGTACATCCT
GGCGGGTCATGAAAACAGTTACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_003618 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGCGGGCGGC GGCGGCGGCCGACGCGTGGAGCCGGGTGATTGTGACCGCCGGGGAGCCGGGAGCCGGCCGCGGCTCT CTCTCCGTGTGGCCCCCTGAGCGGCCCCCTCCCTGCCCGGAGGGAGGCGGGGGCACCTGGGGCCCG CCATGAACCCCGCTTCGATTTGTCCCAGCCGGAACCCGACAGACTTCGAGCTGATTCAGCGCATCGGGC AGCCGGCCCTACGGCGACGCTTACAAGGCCACGGAAGGTTACAACGGGGGAATTTACCAGCAATTATG GGTAATAAAAAATTGGACCCAGGAAAAAACTTTGCATTGGTGCACCAGGAAATTTATCATGAAGGAAGA AATTGTAACCCCCCAATTTTTGTGTTAATTTTGGAAACCATTCCCCAGGGCAAAAAAAGCTTTGGA ATTTGGCAGGGGTTTTTTGGGGGGGGGTTTTTAAACAGGGAATTTTCCCCGGGATGGGCCCCAAA TTTCCGATCGTTTTGAAAAGGAAGGGGGTTTTACATCCCTCTGTGTCTTCTGGGACCGGGGGGAA AACTGTGCCAAAAAATTTGAAAACCTTCCCCCCCCGTTTGTGGACCTTACCCACAAGACGACTT ATTTTTTCATTGGAACCTTTTTCCCCCTATCAAATAGCGAATAACAATAAAGAGGACACATTTT TTTATCCATATCGGTAGAAAGCGGGTATCAAAATATATCCAAAAAGAACACAGCGTT
Kinase Domain Sequence:	>SC323563 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CMTTGMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGCGGGCGGCGGCGG CGGCCGACGCGTGGAGCCGGGTGATTGTGACCGCCGGGGAGCCGGGAGCCGGCCGCGGCTCTCTCTC CGTGTGGCCCCCTGAGCGGCCCCCTCCCTGCCCGGAGGGAGG
Restriction Sites:	Please inquire
ACCN:	NM_003618
Insert Size:	4600 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).
OTI Annotation:	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." Cell, 2008 May p536-548.
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:	NM_003618.2 , NP_003609.2
RefSeq Size:	4141 bp

RefSeq ORF:	2685 bp
Locus ID:	8491
UniProt ID:	Q8IVH8
Cytogenetics:	2p22.1
Domains:	pkinase, CNH, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	<p>This gene encodes a member of the mitogen-activated protein kinase kinase kinase kinase family. The encoded protein activates key effectors in cell signalling, among them c-Jun. Alternatively spliced transcripts encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1). 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>