

## Product datasheet for **SC323528**

### MAP4K1 (NM\_007181) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4K1 (NM_007181) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP4K1
Synonyms:	HPK1
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:** >NCBI ORF sequence for NM\_007181, the custom clone sequence may differ by one or more nucleotides

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ATGGACGTCGTGGACCCTGACATTTTCAATAGAGACCCCCGGGACCACTATGACCTGCTACAGCGGCTGG
GTGGCGGCACGTATGGGGAAGTCTTTAAGGCTCGAGACAAGGTGTCAGGGGACCTGGTGGCACTGAAGAT
GGTGAAGATGGAGCCTGATGATGATGTCTCCACCCTTCAGAAGGAAATCCTCATATTGAAAACCTGCCGG
CAGCCAAACATCGTGGCCTACCATGGGAGTTATCTCTGGTTGCAGAAACTCTGGATCTGCATGGAATTCT
GTGGGGCTGGTTCTCTCCAGGACATCTACCAAGTGACAGGCTCCCTGTCAGAGCTCCAGATTAGCTATGT
CTGCCGGGAAGTCTCCAGGGACTGGCCTATTTGCACTCACAGAAGAAGATACACAGGGACATCAAGGGA
GCTAACATCCTCATCAATGATGCTGGGAGGTGAGATTGGCTGACTTTGGCATCTCGGCCAGATTGGGG
CTACACTGGCCAGACGCCTCTTTTATTGGGACACCCTACTGGATGGCTCCGGAAGTGGCAGCTGTGGC
CCTGAAGGGAGGATACAATGAGCTGTGTGACATCTGGTCCCTGGGCATCACGGCCATCGAACTGGCCGAG
CTACAGCCACCGCTCTTTGATGTGCACCCTCTCAGAGTTCTTCTCCTCATGACCAAGAGTGGCTACCAGC
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GAGTCCCAAGAAACGACCCAGCGCCACCAAGATGCTCAGTCATCAACTGGTATCCCAAGCCTGGGCTGAAT
CGAGGCCTGATCCTGGATCTTCTTGACAACTGAAGAATCCCGGGAAAGGACCCTCCATTGGGGACATTG
AGGATGAGGAGCCGAGCTACCCCTGCTATCCCTCGGCGGATCAGATCCACCCACCGCTCCAGCTCTCT
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CAGAGTCGTCTGACGATGACTATGACGACGTGGACATCCCCACCCTGCAGAGGACACACCTCTCCACT
TCCCCCAAGCCCAAGTCCGTTCTCCATCAGACGAGGGTCTGGGAGCATGGGGGATGATGGGCAGCTG
AGCCCGGGGTGCTGGTCCGGTGTGCCAGTGGGCCCCACCAAACAGCCCCGCTGGGCCTCCCCAT
CCACCAGCAGCCCCACCTCACCGCCATTGAGAACCTCACTCTGGAACCCACCCTCCCGGAGCTTGA
CAAGCCCCACTTCTGCCCCCAAGAAGGAAAAGATGAAGAGAAAGGGATGTGCCCTTCTCGTAAAGTTG
TTCAATGGCTGCCCCCTCCGGATCCACAGCAGGCGCCCTGGACACATCCCTCCACCAAGGACCAGCACC
TGCTCCTGGGGCAGAGGAAGGCATCTTCACTGAACCGGAATGACCAGGAGGCCACGCTGGAAATGCT
CTTTCCTAGCCGGACTACGTGGGTGACTCCATCAACAACGTTTCTCATGTCTCTCAGGAAAGACCCCC
CACCTGTATTCTCATAGCATCCTTGGCCTGCTGGAACGGAAGAGACCAGAGCAGGAAACCCCATCGCTC
ACATTAGCCCCACCGCCTACTGGCAAGGAAGAACATGGTTTCCACCAAGATCCAGGACACCAAAGGCTG
CCGGGCGTGTGTGGCGGAGGGTGCAGCTCTGGGGGCCGTTCTGTGCGGTGCATTGGAGACGTCC
GTTGTCCTGCTTCAAGTGTACCAGCCCATGAACAAATTCCTGCTTGTCCGGCAGGTGCTGTCCCACTGC
CGACGCCTCTGTCCGTGTTCGCGTGTGACCGGGCCAGGCTCTGAGCTGCCCGTGTGTGCATCGGCGT
GAGCCCCGGGCGGCCGGGAAGTCGGTGTCTTCCACACGGTGCCTTTGGCGCGCTCTTGTGTGGCTG
GGCGAGATGAGCACCGGACAGGGGACCCGTGCAGGTGACCCAGGTAGAGGAAGATATGGTGATGGTGT
TGATGGATGGCTCTGTGAAGCTGGTGACCCCGGAGGGTCCCCAGTCCGGGGACTTCGCACACCTGAGAT
CCCCATGACCGAAGCGGTGGAGGCCGTGGCTATGGTTGGAGGTGAGCTTCCAGGCTTCTGGAAGCATGGA
GTGCAGGTGTGGCTCTAGGCTCGGATCAGCTGCTACAGGAGCTGAGAGACCTACCCTCACTTTCCGTC
TGCTTGGCTCCCCAGGCTGGAGTGCAGTGGCAGCATCTCGCCTCACTGCAACCTCCTCCTCCAGGTTT
AAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCCTGTAG
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_007181 unedited ACGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC CGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTCAGGCCCCAGGG ATGGACGTCGTGGACCCTGACATTTTCAATAGAGACCCCGGGACCCTATGACCTGCTACAGCGGCTGG GTGGCGGCACGTATGGGGAAGTCTTTAAGGCTCGAGACAAGGTGTAGGGGACCTGGTGGCACTGATGAT GGTGAAGATGGAGCCTGATGATGATGTCTCCACCCTTCAGAAGGAAATCCTCATATTGAAAACCTTGCCG GCACGCCAACATCGTGGCCTACCATGGGAGTTATCTCTGGTTGCAGAAAACCTGGATCTGCATGGAAT TCTGTGGGGCTGGTTCTCTCCAGACCCTACCATGGGAGTTATCTCTGGTTGCAGAAAACCTGGATCTGCATGGAAT TGCTCTGCCGGGAGTTGCTCAGGGACTGCCCTATTTGCCCTACCGAAGAAGAATACAAGGGCCCTCAAGGG ACTTACCTTCTAATCATTGATGCTGGGAAGGTCAGATTGGCTGACTTGGACTCTCGCCAAATTGGCTC ACCCTGCCGAACCCCTCTTTTCTGGGCACCCTATCTGAAGGGCTCGAATGGGCCCTTGGCCGAGAGGA GAGAACAATAGCCTGTGTGACTGTGTCCGGGTACAGGACATAAAGGGCAGGACTACCCACGCTTGTGTG TGCCCTAGATCTCTCTTACACAATGTGTCAGCGTCGCACATGAAAAGACAAAGTGTGCTTCCATCT CAGTCTCGCGCAAGGTGCGGAGGACTCGGAAGCCTAACTGTCACTCGTTAAGCGACTGATCTATGAA
<b>Kinase Domain Sequence:</b>	>SC323528 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 AKKATGMGCAATGGGCGGTAGSGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTCAGGCCCCAGGGATGG ACGTCGTGGACCCTGACATTTTCAATAGAGACCCCGGGACCCTATGACCTGCTACAGCGGCTGGGTGG CGGCACGTATGGGGAAGTCTTTAAGGCTCGAGACAAGGTGTCAGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_007181
<b>Insert Size:</b>	2900 bp
<b>OTI Disclaimer:</b>	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).
<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_007181.3</a> , <a href="#">NP_009112.1</a>
<b>RefSeq Size:</b>	2732 bp

RefSeq ORF:	2502 bp
Locus ID:	11184
UniProt ID:	<u>Q92918</u>
Cytogenetics:	19q13.2
Domains:	pkinase, CNH, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway
Gene Summary:	<p>Serine/threonine-protein kinase, which may play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway. May play a role in hematopoietic lineage decisions and growth regulation. Able to autophosphorylate. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (2).</p>