

Product datasheet for **SC323445**

MAP3K6 (NM_004672) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MAP3K6 (NM_004672) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MAP3K6 |
| Synonyms: | ASK2; MAPKKK6; MEKK6 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_004672, the custom clone sequence may differ by one or more nucleotides |

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ATGGCGGGCCGTGCCCGGTCCGGGGCGGAGCGCGCCGGCAGCTGCTGGCAGGACCCGCTGGCCGTGG
CGCTGAGCCGGGGCCGGCAGCTCGCGGCCCGCCGGGGCTGCGCGCGGAGCCGGCCGCTCAGCGT
GGTCTACGTGCTGACCCGGGAGCCGAGCCCGGGCTCGAGCCTCGGGAGGGAACCGAGCCGAGCCGCTG
CCCCTGCGCTGCCTGCGGAGGCTTGGCGCAGGTCGCCCGCGCGCCCGCCCGCAGCTGCGCAGCC
TGCCCTTCGGGACGCTGGAGCTAGGCGACACCGCGGCTCTGGATGCCTTCTACAACGCGGATGTGGTGGT
GCTGGAGGTGAGCAGCTCGTGGTACAGCCCTCCCTGTTCTACCACCTTGGTGTGCGTGAGAGCTTCAGC
ATGACCAACAATGTGCTCCTCTGCTCCCAGGCCGACCTCCCTGACCTGCAGGCCCTGCGGGAGGATGTTT
TCCAGAAGAACTCGGATTGCGTTGGCAGCTACACACTGATCCCCTATGTGGTGACGGCCACTGGTCGGGT
GCTGTGTGGTGATGCAGGCCTTCTGCGGGGCTGGCTGATGGGCTGGTACAGGCTGGAGTGGGGACCGAG
GCCCTGCTCACTCCCCTGGTGGGCCGGCTTGCCCGCTGCTGGAGGCCACACCCACAGACTTTGTGGCT
ATTTCCGGGAGACCATTGCGCGGGACATCCGGCAGGCGCGGGAGCGGTTCACTGGGCCACAGCTGCGGCA
GGAGCTGGCTCGCTGCAGCGGAGACTGGACAGCGTGGAGCTGCTGAGCCCCGACATCATCATGAACTTG
CTGCTCTCCTACCGCGATGTGCAGGACTACTCGGCCATCATTGAGCTGGTGGAGACGCTGCAGGCCCTGC
CCACCTGTGATGTGGCCGAGCAGCATAATGTCTGCTTCCACTACACTTTTGCCCTCAACCGGAGGAACAG
GCCTGGGGACCGGGCGAAGGCCCTGTCTGTGCTGCTGCCGCTGGTACAGCTTGAGGGCTCTGTGGCCGCC
GATCTGTACTGCATGTGTGGCCGTATCTACAAGGACATGTTCTTCAGCTCGGGTTTCCAGGATGCTGGGC
ACCGGGAGCAGGCCTATCACTGGTATCGCAAGGCTTTTGACGTAGAGCCAGCCTTCACTCAGGCATCAA
TGCAGCTGTGCTCCTCATTGCTGCCGGCAGCACTTTGAGGATCCAAAGAGCTCCGGCTAATAGGCATG
AAGCTGGGCTGCCTGCTGGCCCGCAAAGGCTGCGTGGAGAAGATGCAGTATTACTGGGATGTGGGTTTCT
ACCTGGGAGCCCAGATCCTCGCCAATGACCCACCCAGGTGGTGTGGCTGCAGAGCAGCTGTATAAGCT
CAATGCCCCCATATGGTACCTGGTGTCCGTGATGGAGACCTTCTGCTCTACCAGCACTTCAGGCCACG
CCAGAGCCCCCTGGAGGGCCACCACGCCGTGCCACTTCTGGCTCCACTTCTGTACAGTCTGCCAAC
CATTCAAGACAGCCTGTGCCAGGGCGACCAGTGTGGTGTGCTGGATGAACAAGGTGCTGCT
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GCCTGCAAAGCTCGAGGTTCTGGGGTACTGACCCAGTAAGCACAGTGACCCTGAGCCTGCTGGAGCCTGAG
ACCCAGGACATTCCTCCAGCTGGACCTTCCCAGTCGCCTCCATATGCGGAGTCAGCGCCTCAAAGCGCG
ACGAGCGCTGCTGCTTCTCTATGCACTCCCCCGGCTCAGGACGTCCAGCTGTGCTTCCCAGCGTAGG
GCACTGCCAGTGGTTCTGCGGCCTGATCCAGGCCTGGGTGACGAACCCGGATTCCACGGCGCCCGGGAG
GAGGCGGAGGGCGCGGGGAGATGTTGGAGTTTGATTAGAGTACACGGAGACGGCGGAGCGGCTGGTGC
TGGGAAGGGCACGTATGGGTGGTGTACGCGGGCCGATCGCCACACGAGGGTGCGCATCGCCATCAA
GGAGATCCCGAGCGGGACAGCAGGTTCTCTCAGCCCCTGCATGAAGAGATCGCTTTCACAGACGCTG
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CCAAGCGGCTGGCAGGCATCACACCTTGCAGTGCAGCCTTACAGGAACCTGCAGTATATGGCCCCAGA
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TGAGCCAGACCCCGCCTCCGAGCCAGCGCCAGACACTGCTGGGGGACCCCTTCTGCAGCCTGGGAAA
AGGAGCCGAGCCCGAGCTCCCCACGACATGCTCCACGGCCCTCAGATGCCCTTCTGCCAGTCCCCTC
TTTCAGCAACTCAACCACCCAGTCTCAGACATTCCTCGTCCCTCAGGCACCCCTCTCAGCACCCACCCAG
CCCCCGAAGCGCTGCCTCAGTTATGGGGGACCCAGCTCCGGGTGCCCGAGGAGCCTGCGGCCGAG
GAGCCTGCGTCTCCGGAGGAGAGTTCGGGGCTGAGCCTGCTGCACCAGGAGAGCAAGCGTCGGGCCATGC
TGGCCGAGTATTGGAGCAGGAGCTGCCAGCGCTGGCGGAGAATCTGCACCAGGAGCAGAAGCAAGAGCA
GGGGGCCCGTCTGGGCAGAAACCATGTGAAGAGCTGCTGCGTGCCTCGGGGCACACATCCACACTCCC
AACCGCCGCGAGCTCGCCAGGAGCTCGGGCGCTGCAAGGACGGCTGAGGGCCAGGGCCTTGGGCTG
CGCTTCTGCACAGACCGCTGTTTGCCTTCCCGGATGCGGTGAAGCAGATCCTCCGCAAGCGCCAGATCCG
TCCACACTGGATGTTCTGACTACTGCTCAGCCGTGCTGTGCGGGCAGCCCTGGGTGTGCTAGGA
CCGGAGGTGGAGAAGGAGGCGGTCTCACCGAGGTGAGAGGAGTGAAGTGAAGGGGACTCCCAGCAGA
GCCAGGCCAGCAGAGCCCGTTCGGTGGAGCCGAGCAGGGCCCGCTCCTCTGATGGTGCAGCTGAG
CCTCTTGAGGGCAGAGACTGATCGGCTGCGGAAATCCTGGCGGGGAAGGAACGGGAGTACCAGGCCCTG
GTGCAGCGGGCTCTACAGCGGCTGAATGAGGAAGCCGGACCTATGCTCTGGCCCCAGAGCCTCAAAGT
CTCTTTCAACGGACCAGGGCCTGGTGCAGTGGCTACAGGAACCTGAATGTGGATTACAGCACCATCCAAAT
GCTGTTGAACCATAGCTTCAACCTCCACACTCTGCTCACCTATGCCACTCGAGATGACCTCATCTACACC
CGCATCAGGGGAGGGATGGTATGCCGATCTGGAGGGCCATCTTGGCACAGCGAGGATCCACACCAG
TCACCTCTGGACCCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_004672 unedited
 CCCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGA
 CACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGCGAGCTGCTGGCAG
 GACCCGCTGGCCGTGGCGCTGAGCCGGGCGGCGAGATCGCAAGGACCCCGGTGAGGAGACTGAACACAA
 AAAAAAAAAAGCAAAAAGATGGAGACGCAAGAAGCAGCCC

Kinase Domain Sequence:

>SC323445 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
 CGRMMRMGMCKACGGSTGGTGTGCTGGCAGGGCACGTATGGGTGGTGTACGCGGGCCGCGATCGCCACAC
 GAGGGTGCATCGCCATCATGGAGATCCCGAGCGGGACAGCAGGTTCTCTCAGCCCCTCATGAAGAG
 ATCGCTCTTACAGACGCTGCGCCACAAGAACATAGTGCCTATCTGGGCTCAGCTAGCCAGGGCGGCT
 ACCTTAAGATCTTCATGGAGGAAGTGCCTGGAGGCAGCCTGTCCT

Restriction Sites:

Please inquire

ACCN:

NM_004672

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| OTI Disclaimer: | <p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| OTI Annotation: | <p>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.</p> |
| Components: | <p>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).</p> |
| 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_004672.3 , NP_004663.3 |
| RefSeq Size: | 4333 bp |
| RefSeq ORF: | 3867 bp |
| Locus ID: | 9064 |
| UniProt ID: | O95382 |
| Cytogenetics: | 1p36.11 |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | MAPK signaling pathway |
| Gene Summary: | <p>This gene encodes a serine/threonine protein kinase that forms a component of protein kinase-mediated signal transduction cascades. The encoded kinase participates in the regulation of vascular endothelial growth factor (VEGF) expression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p> |