

Product datasheet for **SC117238**

MAPKAP Kinase 3 (MAPKAPK3) (NM_004635) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPKAP Kinase 3 (MAPKAPK3) (NM_004635) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPKAP Kinase 3
Synonyms:	3PK; MAPKAP-K3; MAPKAP3; MAPKAPK-3; MDPT3; MK-3; MK3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004635 edited
 ATGGATGGTGAACAGCAGAGGAGCAGGGGGCCCTGTGCCCCGCCAGTTGCACCCGGC
 GGACCCGGCTTGGCGGTGCTCCGGGGGGCGGCGGGAGCCCAAGAAGTACGCAGTGACC
 GACGACTACCAAGTTGTCCAAGCAGGTGCTGGGCCTGGGTGTGAACGGCAAAGTGCTGGAG
 TGCTTCCATCGGCGCACTGGACAGAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCAAG
 GCCCGGCAGGAGGTAGACCATCACTGGCAGGCTTCTGGCGGCCCCATATTGTCTGCATC
 CTGGATGTGTATGAGAACATGCACCATGGCAAGCGCTGTCTCCTCATCATCATGGAATGC
 ATGGAAGGTGGTGAAGTTGTTTCAGCAGGATTGAGGAGCGTGGCGACCAGGCTTTCAGTGA
 AGAGAAGTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCAT
 AACATTGCCACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAGAC
 GCAGTGTAAAGCTCACCATTGTTGGCTTGTCTAAGGAGACCACCAAAATGCCCTGCAG
 ACACCCTGCTATACTCCCTATTATGTGGCCCTGAGGTCCTGGGTCCAGAGAAGTATGAC
 AAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTCCTTTGTGGCTCCCA
 CCCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGGATGAAGAGGAGGATTCGCCTG
 GGCCAGTACGGCTTCCCAATCTGAGTGGTCAGAAGTCTCTGAGGATGCCAAGCAGCTG
 ATCCGCCTCCTGTTGAAGACAGACCCACAGAGAGGCTGACCATCACTCAGTTTATGAAC
 CACCCCTGGATCAACCAATCGATGGTAGTGCCACAGACCCCACTCCACACGGCCCGAGTG
 CTGCAGGAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGACCAGTGCCTTGGCC
 ACTATGCCGGTAGACTACGACCAGGTGAAGATCAAGGACCTGAAGACCTTAACAACCGG
 CTCTCAACAAGAGGAGAAAAAGCAGGCAGGCAGCTCCTCTGCCTCACAGGGCTGCAAC
 AACCAAGTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004635 unedited</p> <pre> ATTTTGTAAATACGACTACTATAGGGCGGCCGGAATTCGGCACCAGCTCCCGCGACCGC CTCTCCTGCCCTCGCCGGTACCTCAGCAAGGTGCCACTAGAAGCGCCAGGCTGGGGCCG CCTCTGAGCGCCCCGCGGGGCCATGGATGGTGAACAGCAGAGGAGCAGGGGGCCCTG TGCCCCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTGCTCCGGGGGGCGCGGG AGCCCAAGAAGTACGCAGTGACCGACGACTACCAGTTGTCCAAGCAGGTGCTGGCCCTGA GTGTGAACGGCAAAGTGCTGGAGTGCTTCCATCGGCGCACTGGACAGAAGTGTGCCCTGA AGCTCCTGTATGACAGCCCCAAGGCCCGCAGGAGGTAGACCATCACTGGCAGGCTTCTG GCGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAAGCGCT GTCTCCTCATCATCATGGAATGCATGGAAGGTGGTGAAGTTGTTCCAGCAGGATTCAGGAGC GTGGCGACCAGGCTTTCCTGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTG CCATCCAGTTTCTGCACAGCCATAACATTGCCACCGAGATGTCAAGCCTGAAAACCTAC TCTACACATCTAAGGAGAAAGACGCAGTGCTTAAGCTCACCCGATTTTGGCTTTGCTAAG GAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTCCCCCTGAG TCCTGGTCCAAAAGTATGACAGTCATGTGAATGTGGCCCTGGGTGCATCATGTACTCC TCTCTTNGGCTCCCACCTTTTATCTCAAAGGCCAAGCCATCTCCCGGGGAATAAGA GGAGGATTTCTTGGGCATACGGCTTCCCATCCTGGATGTACAATCTCTGGATGCAACAC TGATCCCTCTGTGAAAA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004635 unedited</p> <pre> CCCCGGCCNNACACCCNCCTCTCTCENNENNNNNNGTTTTCTGNACCGGGCC GCATTCTANGATCGTTTTTTTTTTTTTTTTTTTTTTTTTAAATGATGAAATGGTGTATT ACTATCTGGGTGTAAAACCCAGCAGTGTGTCCTATCTGCATGGTCTAGGGTTCCAG CCAGTGAGAGAGGGGCCAGGAAGGAACTAGGCTGCGTGTGAGGCACTTGTGAGCAGTAT CAGGCACTCAGCACCCCTAAGGCTACCATGGTGGGGTGGGCTGGTAAGCTCTGATCAGCC ATGAAAGGCCCTCTGCGCTACTCAGGCCAAGCCAGGACCAGACATTCTGAGCATGGC TCAGTCGCCTTCCCCAACCTCAGGTCTGACCCAGAGTAAAGAAAGAGACCTCAGGTTAAT GGGAAGCCACTTAGCTCTGCTCCCAACCAGCCACTTTCACACAAGTATACCAAAAGATAG CCCCTGACTTCAACAGAGAGGGGCTTTCCTGCCTGAGATCTGGTGAGCAGATGGGTGCAG GGAAAAGTATGCTGGCTTTTGTACAGTGACATTTTCAAAGTGGAAAAAGTTAAAAATA TCTCCACCTTAAGTTTCAGATGAAAAGTCAACCTTTGGGTGCGGAATAGTGACGGGATGG CTANGCCAGGGACTCCCTCAGGGAGAGCGCTGAGTGCCATCTTGGCTGGGGCTGCAACA AGCAAGGCTGGACTGCACAGGGAGGCAAGCANACTGAATCCAACACCTCAGGGCCCAA GGAGAATGAAAATGAAAAGGCCACCCACGGTGTGAAGAAACAGCCTCCCCAAGACAGAGG TGAACCCCTTATTGGCCCTCCTCCCTAACTGGTTAATTAGGATTCACAGGCAGCAACGT GGGTCCTTGTACCTTGGAAACCTTGGCCAATGCCTTTTTAAAGGCAGGCCCTTTTGTCA TTCCACAGGGAAAGTTTTTGGAAAATGGGAAACCCCCCCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004635
Insert Size:	2560 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:

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_004635.3](#), [NP_004626.1](#)

RefSeq Size: 2500 bp

RefSeq ORF: 1149 bp

Locus ID: 7867

UniProt ID: [Q16644](#)

Cytogenetics: 3p21.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: MAPK signaling pathway, VEGF signaling pathway

Gene Summary: This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2011]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 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.