

Product datasheet for **SC332053**

MAPKAP Kinase 3 (MAPKAPK3) (NM_001243925) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPKAP Kinase 3 (MAPKAPK3) (NM_001243925) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPKAP Kinase 3
Synonyms:	3PK; MAPKAP-K3; MAPKAP3; MAPKAPK-3; MDPT3; MK-3; MK3
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332053 representing NM_001243925. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGATGGTGAACACAGCAGAGGAGCAGGGGGCCCTGTGCCCCGCCAGTTGCACCCGGCGGACCCGGC
TTGGGCGGTGCTCCGGGGGGCGCGGGAGCCCAAGAAGTACGCAGTGACCGAGACTACCAGTTGTCC
AAGCAGGTGCTGGGCTGGGTGTGAACGGCAAAGTGTGGAGTGTTCATCGGCGCACTGGACAGAAG
TGTGCCCTGAAGCTCCTGTATGACAGCCCAAGGCCCGCAGGAGGTAGACCATCACTGGCAGGCTTCT
GGCGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAAGCGCTGTCTCCTC
ATCATCATGGAATGCATGGAAGTGGTGTGAGTTGTTTCAGCAGGATTCAGGAGCGTGGCGACCAGGCTTTC
ACTGAGAGAGAAGCTGCAGAGATAATGCCGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAAC
ATTGCCACCCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAGACGCAGTGCTTAAG
CTCACCGATTTTGGCTTTGCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTAT
TATGTGGCCCTGAGGTCTGGGTCCAGAGAAGTATGACAAGTCAATGTGACATGTGGTCCCTGGGTGTC
ATCATGTACATCCTCCTTTGTGGCTTCCACCCTTCTACTCCAACACGGGCCAGGCCATCTCCCGGGG
ATGAAGAGGAGGATTCGCTGGGCCAGTACGGCTTCCCAATCCTGAGTGGTCAGAAGTCTCTGAGGAT
GCCAAGCAGCTGATCCGCTCCTGTTGAAGACAGACCCACAGAGAGGCTGACCATCACTCAGTTCATG
AACCACCCTGGATCAACCAATCGATGGTAGTGCCACAGACCCCACTCCACACGGCCCGAGTGTGCAG
GAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGACCAAGTGCCTTGCCACTATGCGGGTAGAC
TACGACCAGGTGAAGATCAAGGACCTGAAGACCTTAACAACCGCTCCTCAACAAGAGGAGAAAAAAG
CAGGCAGGCAGCTCCTCTGCCTCACAGGCTGCAACAACCAAGTAG

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001243925
Insert Size:	1149 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).



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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_001243925.1
RefSeq Size:	2568 bp
RefSeq ORF:	1149 bp
Locus ID:	7867
UniProt ID:	Q16644
Cytogenetics:	3p21.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway, VEGF signaling pathway
MW:	43 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) 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.</p>