

Product datasheet for SC117159

MAPKAP Kinase 2 (MAPKAPK2) (NM_032960) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPKAP Kinase 2 (MAPKAPK2) (NM_032960) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPKAP Kinase 2
Synonyms:	MAPKAP-K2; MK-2; MK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_032960 edited
 ATGCTGTCCAACCTCCCAGGGCCAGAGCCCGCGGTGCCGTTCCCCGCCCCGGCCCCGCCG
 CCGCAGCCCCCACCCTGCCCTGCCGCACCCCGGGCGCAGCCGCCCGCCGCCGCCGCCG
 CAGCAGTTCGCCGAGTTCACGTCAAGTCCGGCCTGCAGATCAAGAAGAACGCCATCATC
 GATGACTACAAGTCCACAGCCAGGTCCTGGGGCTGGGCATCAACGGCAAAGTTTTCGAG
 ATCTTCAACAAGAGGACCCAGGAGAAATTCGCCCTCAAAATGCTTCAGGACTGCCCAAG
 GCCCGCAGGGAGGTGGAGCTGCACTGGCGGGCCTCCCAGTGCCCGCACATCGTACGGATC
 GTGGATGTGTACGAGAATCTGTACGCAGGGAGGAAGTGCCTGCTGATTGTCATGGAATGT
 TTGGACGGTGGAGAACTTTAGCCGAATCCAGGATCGAGGAGACCAGGCATTACAGAA
 AGAGAAGCATCCGAAATCATGAAGAGCATCGGTGAGGCCATCCAGTATCTGCATTCAATC
 AACATTGCCCATCGGGATGTCAAGCCTGAGAATCTTTATACACCTCCAAAAGGCCCAAC
 GCCATCCTGAAACTCACTGACTTTGGCTTTGCCAAGGAAACCACCAGCCACAACCTTTG
 ACCACTCCTTGTATACACCGTACTATGTGGCTCCAGAAGTGTGGTCCAGAGAAGTAT
 GACAAGTCTGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTGCTGTGTGGGTAT
 CCCCCCTTCTACTCCAACCACGGCCTTGCCATCTCTCCGGGATGAAGACTCGCATCCGA
 ATGGGCCAGTATGAATTTCCAACCCAGAATGGTCAGAAGTATCAGAGGAAGTGAAGATG
 CTCATTTCGGAATCTGCTGAAAACAGAGCCACCCAGAGAATGACCATCACCGAGTTTATG
 AACCCACTTTGGATCATGCAATCAACAAGTCCCTCAAACCCCACTGCACACCAGCCGG
 GTCCCTGAAGGAGGACAAGGAGCGGTGGGAGGATGTCAAGGAGGGAGATGACCAGTGCCTT
 GGCCACAATGCCGTTGACTACGAGCAGATCAAGATAAAAAAGATTGAAGATGCATCCAA
 CCCTCTGCTGCTGAAGAGCGGGAAAGAAAGCTCGGGCCCTGGAGGCTGCGGCTCTGGCCC
 ACTGAGCCACCGCCCTCTGCCACGGGAGGACAAGCAATAACTCTCTACA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032960 unedited
 TTATTACCCCGCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
 AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC
 GCGAATTCGGCACGAGGCCCGGAGCCGGAGGAGGGGGCGGCCGCGGGCACCCCGCTGT
 GCCCGGGCGTCCCACGGCACCATGTGTCCAACCCCAGGGCCAGAGCCCGCGGTGCCG
 TTCCCCGGCCCGCCCGCCCGCAGCCCCCACCCCTGCCCTGCCGCACCCCGCGCG
 CAGCCCGCCCGCCCGCCCGCCCGCAGCAGTTCGCCCACTTCCCCGTCAGTCCGGCCTGCC
 ATCAAGAATAACGCCACTCTCGATGACTACAACGTCAACAGCCCAAGTCCGGGGCTGGGC
 ATCAACGGCCAAGTTTTGCGGATCTTCAACCAAAGGACCCAGCACAAACTCGCCCTCAA
 ATGCTTACGACTTGCCCAAGCCACACGGAGGTGGAGCTGCACTGGCGGCCTCCAC
 TGCCCGGACAACCTGACCGATCCTAGATGTGTACAACCAATCCGTCCCAGGGAGAAAGAC
 CTTGTGATAGACCATGAATTTTTGGAATGTGAGAAGTCTTAACCCGAATCCCTATTCT
 AGGTGACCCAGTGTATTCATACAGAGAACCTTCTGAATTCTGACGAAACACTGTTGAG
 CGCACACAAGATGTAGCTTAATGATATTTGCTGACCCGGAGGCGCAACCTGGAAACCC
 TTATTCCGCTCCAACGAGGCACCTCCCGGCACAACGCCCACTGACTATGGGCTCNGCC
 CTGGAGAGACCCGACCCCTGAAGATGAGGGCTTCCCCTCGTAAGACACCTCCTTNTGTG
 CCCGTTAATGGCGTGACTACATACAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032960 unedited
 NAAATAGCTTGNACCGCGCCGCTTTCTANNGATCGTTTTTTTTTTTTTTTTTTGTAAC
 ATTAATCTGTTTAGTAAAGACAATTTTCGCTCATACAAAACAACAGTTTACAACAATCGA
 GTGCTGGACACACCATCTGAGACAAGGGAGGCGTGCAGGCACCCAGCGCTTCCCCAT
 ACACAAAGACACCTGGGCGCCCTCCACCACCTGCCCTGAGGGAGAGAAAGGTGAA
 GTATTCCTGCCACCTCTCCCTCCAAGGGAAGGGGAGTGGGGGGCCATGGCACAGACAGC
 CTACCCAGCTGCTCCTCATCTGTGCTGGGGGAGGCCCTCCCCTCACCGCCCCGAAGC
 TGAGTTGTTTGGGGTGTGGCAAATGGCTGATGGGCAAGGGGGCAAAGTCAAGGACATCTT
 TGGTGCAAAGACTCCCCCTGACCCACCAGGCCACACAATGGAAATCTGAGGGAAGACTTC
 AAAAGTGGCCCTGCCTTTGCCACAAGGGGTAGCTGGCTGATGCCCCAGAACCCAGGACA
 AACACAGGAAATGCAAAAGCTCTGCCAACAGAAGCTGCCAGGCTCACCTACATGAGCTG
 GGCGGTGGCCCATGGAGAAATGGCTAAAAATTTAAGGAAAATAACAAAAATGGGTTAAT
 AATGGCAAGAAGGGGAAGTAGAGAGGTCATTAGTAGATGAGTGCCTCAGAGGACCTAGG
 ACCACCTTTNAATTGGGGGAGGGGGGCCCTGGGGGCTGGGGTCCAGTCTTCTGATC
 GCAGTGCCAGTGCCCGTCACTCCTCTGCTCCCGGAACCCAGCTAATAGAGACAGGC
 CACAGAGGCCTGGTTCAGAATCTGGGTGGGCTTCCCANGCACTTGGCAGGCTTCATAT
 GGGCAGGCCAGACCCAAGAAGGGAGAAGTTTCTAC

Restriction Sites:

NotI-NotI

ACCN:

NM_032960

Insert Size:

9000 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:	<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_032960.2 , NP_116584.2
RefSeq Size:	3071 bp
RefSeq ORF:	1203 bp
Locus ID:	9261
UniProt ID:	P49137
Cytogenetics:	1q32.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	MAPK signaling pathway, Neurotrophin signaling pathway, VEGF signaling pathway
Gene Summary:	<p>This gene encodes a member of the Ser/Thr protein kinase family. This kinase is regulated through direct phosphorylation by p38 MAP kinase. In conjunction with p38 MAP kinase, this kinase is known to be involved in many cellular processes including stress and inflammatory responses, nuclear export, gene expression regulation and cell proliferation. Heat shock protein HSP27 was shown to be one of the substrates of this kinase in vivo. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) uses an alternate splice junction at the 5' end of the last exon compared to variant 1. The resulting isoform (2) has a longer and distinct C-terminus compared to isoform 1.</p>