

Product datasheet for SC311111

MAPKAP Kinase 2 (MAPKAPK2) (NM_004759) Human Untagged Clone

Product data:

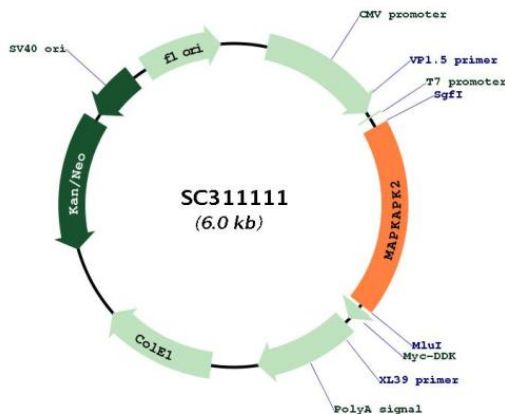
Product Type:	Expression Plasmids
Product Name:	MAPKAP Kinase 2 (MAPKAPK2) (NM_004759) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPKAPK2
Synonyms:	MAPKAP-K2; MK-2; MK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311111 representing NM_004759. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGTCCAACCTCCAGGGCCAGAGCCCGCGGTGCCGTTCCCGCCCCGGCCCCCGCCGCGCAGCCCC
CCCACCCCTGCCCTGCCGACCCCGCGCAGCCGCGCGCCGCCCGCCGCGCAGCAGTTCGCCGAGTTC
CACGTCAAGTCCGGCCTGCAGATCAAGAAGAACGCCATCATCGATGACTACAAGTCCACCAGCCAGGTC
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GAATGTTTGGACGGTGGAGAATCTTTAGCCGAATCCAGGATCGAGGAGACCAGGCATTCACAGAAAGA
GAAGCATCCGAAATCATGAAGAGCATCGGTGAGGCCATCCAGTATCTGCATTCAATCAACATTGCCCAT
CGGGATGTCAAGCCTGAGAATCTTTATACACCTCCAAAAGGCCAACGCCATCCTGAAACTCACTGAC
TTTGGCTTTGCCAAGGAAACCACCAGCCACAACCTTTGACCACTCCTTGTATACACCGTACTATGTG
GCTCCAGAAGTGTGGGTCCAGAGAAGTATGACAAGTCTGTGACATGTGGTCCCTGGGTGTCATCATG
TACATCCTGTGTGGGTATCCCCCTTCTACTCCAACCACGGCCTTCCATCTCTCCGGGCATGAAG
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AGGTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_004759

Insert Size: 1113 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_004759.4](#)

RefSeq Size: 3534 bp

RefSeq ORF: 1113 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
MW:	42.2 kDa
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 (1) represents the longer transcript but encodes the shorter isoform (1). 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>