

Product datasheet for SC323620

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 within SC323620 sequence for NM_032960 edited (data generated by NextGen Sequencing)

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ATGCTGTCCAACCTCCCAGGGCCAGAGCCCGCCGGTCCCGTTCCTCCCGCCCGGCCCGCCG
CCGCAGCCCCCACCCTGCCCTGCCGACCCCCCGCGCAGCCCGCCCGCCCGCCCGCCG
CAGCAGTTCCTCCGAGTTCACAGTCAAGTCCGGCCTGCAGATCAAGAAGAACGCCATCATC
GATGACTACAAGGTCACCAGCCAGGTCCTGGGGCTGGGCATCAACGGCAAAGTTTTCGAG
ATCTTCAACAAGAGGACCCAGGAGAAAATTCGCCCTCAWRATGCTTCAGGACTGCCCAAG
GCCCGCAGGGAGGTGGAGCTGCACTGGCGGGCCTCCAGTGCCCGCACATCGTACGGATC
GTGGATGTGTACGAGAATCTGTACGCAGGGAGGAAGTGCCTGCTGATTGTCATGGAATGT
TTGGACGGTGGAGAACTCTTAGCCGAATCCAGGATCGAGGAGACCAGGCATTACAGAA
AGAGAAGCATCCGAAATCATGAAGAGCATCGGTGAGGCCATCCAGTATCTGCATTCAATC
AACATTGCCCATCGGGATGTCAAGCCTGAGAATCTTTATACACCTCCAAAAGGCCCAAC
GCCATCCTGAAACTCACTGACTTTGGCTTTGCCAAGGAAACCACCAGCCCAACTCTTTG
ACCACTCCTTGTATACACCGTACTATGTGGCTCCAGAAGTGTGGGTCCAGAGAAGTAT
GACAAGTCCTGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTGCTGTGTGGGTAT
CCCCCTTCTACTCCAACCACGGCCTTGCCATCTCTCCGGGATGAAGACTCGCATCCGA
ATGGGCCAGTATGAATTTCCAACCCAGAATGGTCAGAAGTATCAGAGGAAGTGAAGATG
CTCATTCGGAATCTGCTGAAAACAGAGCCACCCAGAGAATGACCATCACCGAGTTTATG
AACCACCTTGGATCATGCAATCAACAAAGTCCCTCAAACCCCACTGCACACCAGCCGG
GTCCTGAAGGAGACAAGGAGCGGTGGGAGGATGTCAAGGAGGAGATGACCAAGTGCCTTG
GCCACAATGCGCGTTGACTACGAGCAGATCAAGATAAAAAAGATTGAAGATGCATCCAAC
CCTCTGCTGCTGAAGAGGCGGAAGAAAGCTCGGGCCCTGGAGGCTGCGGCTCTGGCCAC
TGA

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Clone variation with respect to NM_032960.3

278 a=>w;279 a=>r



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_032960 unedited ACCGCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAGCCAGCGGCGC GCGGTGGGACCCACGGAGCCCGCGACCCCGGAGCCTGGAGCCGGGCCGGTCCGGGGAAGCCGGCTCCA GCCCGGAGCGAACTTCGAGCCCGTCCGGGGCGGCGGGGAAGGGACCCGAACCCGGACAAAATGTACGA GGAAAATTCCTTTTGCAGGACCCCTCTCGAGGACAACCCCCACTGCTCCACAGGCCAATCTTGTTAC CAAAAAATAGGAACGATC
Kinase Domain Sequence:	>SC323620 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 GWCTMTGCCAGTCTGGGGCTGGCATCACGGCAAGTTTTGCAGATCTTCAACAAGAGGACCCAGGAGAAAT TCGCCCTCATGATGCTTCAGGACTGCCCAAGGCCCGCAGGGAGGTGGAGCTGCACTGGCGGGCCTCCCA GTGCCCGCACATCGTACGGATCGTGGATGTGTACGAGAATCTGTACGCAGGGAGGAAGTGCCTGCTGATT GTCATGGAATGTTTGGACGGTGGAGAACTTTAGCCGAATCCAG
Restriction Sites:	Please inquire
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).
OTI Annotation:	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.
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: 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]

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.