

Product datasheet for SC118423

SAPK4 (MAPK13) (NM_002754) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAPK4 (MAPK13) (NM_002754) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAPK4
Synonyms:	MAPK-13; MAPK 13; p38delta; PRKM13; SAPK4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002754 edited
 ATGAGCCTCATCCGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCCGCTGGGAG
 CTGCCCCAAGACCTACGTGTCCCCGACGCACGTGCGCAGCGGGCCATATGGCTCCGTGTGC
 TCGGCCATCGACAAGCGGTCAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCTTT
 CAGTCCGAGATCTTCGCCAAGCGCGCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAG
 CATGAGAACGTCAATTGGGCTCCTGGATGTCTTACCCAGCCTCCTCCCTGCGCAACTTC
 TATGACTTCTACCTGGTGTGCCCTTCATGCAGACGGATCTGCAGAAGATCATGGGGATG
 GAGTTCAGTGAGGAGAAGATCCAGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTAC
 ATCCACTCTGCTGGGGTCGTGCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAG
 GACTGTGAACTGAAGATTCTGGATTTTGGGCTGGCGGACATGCAGACGCCGAGATGACT
 GGCTACGTGGTGACCCGCTGGTACCGAGCCCCGAGGTGATCCTCAGCTGGATGCACTAC
 AACCAGACAGTGGACATCTGGTCTGTGGCTGTATCATGGCAGAGATGCTGACAGGGAAA
 ACTCTGTTCAAGGGGAAAGATTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGG
 GTGCTGGCACGGAGTTTGTGCAGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAG
 TCCCTGCCACAGACCCCAAGGAGTTTCACTCAGCTGTTCCACGGGCCAGCCCCAG
 GCTGCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTGGACAAGCGCCTGACGGCCGCG
 CAGGCCCTCACCCATCCCTTCTTTGAACCCTTCCGGGACCCTGAGGAAGAGACGGAGGCC
 CAGCAGCCGTTTGATGATTCCTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAG
 CACATCTACAAGGAGATTGTGAACCTTTCAGCCCCATTGCCCGGAAGGACTCACGGCCCGG
 AGTGGCATGAAGCTGTAG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002754 unedited CACCAGGCGGCGCGGGGCGGGCGCAGCGGGGTCGGGGCGCTGGGAGCCCGTTGGGCCGC GAACGCAGCCGCCACGCCGGGGCCGCCGAGATCGGGTGCCCGGATGAGCCTCATCCGGA AAAAGGCTTCTACAAGCAGGACGTCAACAAGACCGCCTGGGAGCTGCCAAGACCTACGT GTCCCCGACGCACGTCCGCAGCGGGGCTATGGCTCCGTGTGCTCGGCCATCGACAAGCG GTCAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCTTTCAGTCCGAGATCTTCGC CAAGCGCGCTACCGGGAGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGG GCTCCTGGATGTCTTACCCAGCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGT GATGCCCTTCATGCAGACGGATCTGCAGAAGATCATGGGGATGGAGTTCAGTGAGGAGAA GATCCAGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTACATCCACTCTGCTGGGGT CGTGCACAGGGACCTGAAGCCAGGCAACCTGNCTGTGAATGAGGACTGTGAACTGAAG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002754 unedited NAAAATACGTGTACCGCGCCGCTTCTANGACTCGAGTTTTTTTTTTTTTTTTTTTTTTTT TTAAAGAATTTGCAGTTTAATTAATAA GGGTCAAGATAAGATCACCCCGATTAGGGGGGCCCTAAATCCAATGACTGTTGTAAA AGAGGAGAAAACCGAAAAACCGAGACTGGGGTATTCTCAATAAGCTGGGGAATGCCA CGGACTGCCACTGCCGCCACAAGCTAAAAAGAGCCAAGGAAGGATTTTTCCCAAAGCC TTAAAGGGACCACAGCCCTGCCAACACCTCCATCCAAATTTCCAGCCTCCAAAAGTGT AAGGGAATCAAGTTCTGCTGTTTCAATCCACCAGGTTTGGGGTAATTCGTTAGAGCATCC CTAGAAAACCAACACAGCATTACTGCCATAGGCCCGCCGCTGGGTTAACGCCACTCAG CCCCACTTTGGCGGAAGGAAAGGGCCCCACCTGCAGGCGATTCTCCAAATGGGCAGTTT AACGTGGCCTGTTAGGATCAAACTAGTTTCTCCCAACCGACATCTTTGAATTTGCATC TACTAGGCCCATTTCCACATAAGGAGAAGGACCTTCTGTCTCTGCTTGAAAGGCTGT ATTCCAAGAAAGGCTGAGTTTGGTAGTGACAAATACTGGTCTTGGGCAATGTCTGGCCG GCATGGCCATGCAAAATGAGTCCCTACAGCTTTATGCCACTCCGGCGCCGTGAGTCCCTC CGGGCAATGGGGCTGAAGTTAAATCTCCTTGTAGATGTGCCGCTCCATTTCATCCACTG TGAGTTTCTCGTGTCTCAGGAATCATCAAAGGCTGCTGGGCCTCCGTCTCTTCTCAGG GTCCCGAAGGGTTCAAAGAAGGGT
Restriction Sites:	NotI-NotI
ACCN:	NM_002754
Insert Size:	1750 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:	<u>NM_002754.3</u> , <u>NP_002745.1</u>

RefSeq Size:	1888 bp
RefSeq ORF:	1098 bp
Locus ID:	5603
UniProt ID:	O15264
Cytogenetics:	6p21.31
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway
Gene Summary:	<p>This gene encodes a member of the mitogen-activated protein (MAP) kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The encoded protein is a p38 MAP kinase and is activated by proinflammatory cytokines and cellular stress. Substrates of the encoded protein include the transcription factor ATF2 and the microtubule dynamics regulator stathmin. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and is protein-coding.</p> <p>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>