

Product datasheet for **MR209699**

Map4k1 (BC005433) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k1 (BC005433) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map4k1
Synonyms:	Hpk1; mHPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209699 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGGCCCTTGTGGACCCCGACATTTTTAATAAGGACCCTCGAGAACACTATGATCTACTGCAACGACTGG
GTGGTGGAACTTATGGAGAAGTATTCAAGGCTCGCGACAAGGTGTCTAAGGACCTGGTGGCTTTGAAGAT
GGTGAAGATGGAGCCTGATGATGACGTCGCCACCCCTTCAGAAGGAGATTCTCATGCTGAAAACTGCCGG
CACGCCAACATCGTGGCTTACCATGGCAGTTACCTCTGGCTGCAGAAGCTGTGGATCTGCATGGAATTCT
GTGGAGCCGGTTCTCTCCAGGACATCTACCAAGTACTGGCTCTCTGTCCGAGCTCCAGATCAGCTATGT
GTGCCGGGAAGTCTTCCAGGACTGGCTACCTGCATTACAGAGAAGAAGATACATCGAGACATCAAGGGA
GCCAACATCCTCATCAACGACTGCGGGGAGGTTAAGCTGGCTGACTTTGGGATCTCAGCCCAGATTGGGG
CGACACTGGCCCCGCGCCTTTCTTTTATTGGGACACCGTACTGGATGGCTCCAGAGGTGGCAGCGGTGGC
CCTGAAGGGTGGATAACAATGAGCTGTGCGACATCTGGTCTTTGGCATCACAGCCATCGAGCTGGCTGAG
CTTCAGCCCCCTCTTTGATGTGCACCCTCTCAGGGTTCTTCTCCTCATGACCAAGAGCGGGTACCAGC
CTCCTCGGCTGAAGGAAAAGAGCAGATGGTCATCTTCTTCCACAACCTTTGTCAAAGTACCCCTCACTAA
GAACTCCAAGAAACGCCCAAGTCCACCAAGATGCTCAGTCATCAGCTGGTGTCCAGCCAGGGCTGAAC
AGAGGCCCTGATCTTGGATCTTCTTGACAAAATGAAGAATCCTGGGAAGGGGCTGCCTGTTGATATTGAAG
ATGAGGAGCCTGAGCCACCCCTGCCATCCCTCGGCGGATCAGATCTACCTACCGGGCCAGCTCACTAGG
GATCCCAGACGCAGACTGCTGCCGGCGGCAATGGAGTCCAGAGGCCAGATGCGTGGACTGCAGACCT
CAGGCTGAAACTGTTTCGTTATATCCCCCTGCACACTTCGGGAGCACCAGTCCCAGGAGTCAGCTGTCAG
ATTCTGATGACGACTATGATGATGTGGACATCCCTGCCCTTCAGAGAACATACTCCTCCACTGCCCCC
CAAGCCCAAGTTTCGGTCTCCATCAGATGATGGTTCTGGAGGAATTAGGGATGATGGGCAATTGAGTCCA
GGGTTTCTGGTTCGATGTGCAAGTGGGCCCTCCACGTACTCCCGACCTGGACCTCCCCAGCGACCC
GCAGCCCTCACCTCACAGCTCGCTCAGATCCCTCATTGTGGAACCCAGCTGCTCCGGAGCCAGGCCAGCC
CCCCTCGTACCCCAAGGAAGGAAAAGATGAGGGGAAAGATGGAGAACGAGAAGCGCAGAGAGAAATAT
CCCCTTGTGAAATTTCAACGGCTGTCCCCTCCAGATCCACAGCACAGCTGCCTGGACACATCCCT
CTACAAAAGATCAGAACCTGCTCCTGGGGCAGAGGAAGGCATTTTCATACTGAACCGGAATGATCAGGA
GGCCACGCTGAAATGATCTTCCCTGGCCGCACAACCTGGCTCTATTGCATCAACAACCTCCTCATGTCT
CTCTCAGGGAAGACACCCTACCTGTATTCTCATAGCATCTGGGCTGCTTGAAGGAAAGACGGCAGAA
CAGGAAGCCCCATTGCTCACATTAGCCCTCACCGTTACTGGCAAGAAAGAACATGGTCTCCAGTAAGAT
CCAGGACACCAAAGGCTGCCGGGCTTGCTGTGTGGGTGAGAGCCAGCTTCCCTCCGGGTGCAGAGTGATG
GGGCGGGCCGGTGCCTGGCCAGTGTCTACTCAAACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209699 protein sequence
Red=Cloning site Green=Tags(s)

MALVDPDIFNKDPREHYDLLQRLGGGTYGVEVFKARDKVSVDLVALKMKVMEPDDDDVATLQKEILMLKTCR
 HANIVAYHGSYLWLQKLWICMEFCGAGSLQDIYQVTGSLSELQISYVCREVLQGLAYLHSEKKIHRDIK
 ANILINDCGEVLADFGISAQIGATLARRLFISYVWMAPEVAVALKGGYNELCDIWSLGITAIELAE
 LQPPLFDVHPLRVLFMTKSGYQPPRLKEKSRWSSSFHNFVKVTLTKNSKKRPSATKMLSHQLVSPGLN
 RGLILDLLDKMKNPGKGLPVDIEDEEPEPPPAIPRRIRSTYRASSLGIPDADCCRRQMEFQRPCVDCRP
 QAETVRLYPPAHFGSTSPRSQSDSDDDYDDVDIPAPSENIPPLPPKPKFRSPDDGSGGIRDDGQLSP
 GVLVRCASGPPPRTPRPGPPATRSPLHTARSDFSLWNPAAPEPGQPPLVPPRKEKMRGMENEKRRKEY
 PLLVKLFNGCPLQIHSTAATHPSTKDQNLGAEEGIFILNRNDQEATLEMI FPGRTTWLYCINLLMS
 LSGKTPYLYSHSILGLLERKDGRTGSPIAHISPHRLARKNMVSSKIQDTKGCRAACVGSQPLPSGCRVM
 GRAGAWPVSTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC005433

ORF Size: 1923 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC005433](#), [AAH05433](#)

RefSeq Size: 2783 bp

RefSeq ORF: 1925 bp

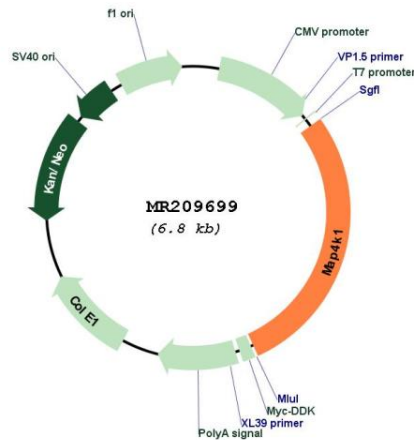
Locus ID: 26411

Cytogenetics: 7 B1

MW: 71.2 kDa

Gene Summary: Serine/threonine-protein kinase, which may play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway. May play a role in hematopoietic lineage decisions and growth regulation. Able to autophosphorylate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209699