

Product datasheet for **MG209699**

Map4k1 (BC005433) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k1 (BC005433) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map4k1
Synonyms:	Hpk1; mHPK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209699 representing BC005433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCTTGTGGACCCCGACATTTTTAATAAGGACCCTCGAGAACACTATGATCTACTGCAACGACTGG
 GTGGTGGAACTTATGGAGAAGTATTCAAGGCTCGCGACAAGGTGTCTAAGGACCTGGTGGCTTTGAAGAT
 GGTGAAGATGGAGCCTGATGATGACGTCGCCACCCCTCAGAAGGAGATTCTCATGCTGAAAACTGCCGG
 CACGCCAACATCGTGGCTTACCATGGCAGTTACCTCTGGCTGCAGAAGCTGTGGATCTGCATGGAATTCT
 GTGGAGCCGGTTCTCTCCAGGACATCTACCAAGTACTGGCTCTCTGTCCGAGCTCCAGATCAGCTATGT
 GTGCCGGGAAGTCTTCCAGGACTGGCTACCTGCATTACAGAGAAGAAGATACATCGAGACATCAAGGGA
 GCCAACATCCTCATCAACGACTGCGGGGAGTTAAGCTGGCTGACTTTGGGATCTCAGCCAGATTGGGG
 CGACACTGGCCCCGCCCTTTCTTTTATTGGGACACCGTACTGGATGGCTCCAGAGGTGGCAGCGGTGGC
 CCTGAAGGGTGGATAACAATGAGCTGTGCGACATCTGGTCTTTGGCATCACAGCCATCGAGCTGGCTGAG
 CTTCCAGCCCCCTCTTTGATGTGCACCCTCTCAGGGTTCTTCTCTCATGACCAAGAGCGGGTACCAGC
 CTCTCGGCTGAAGGAAAAGAGCAGATGGTCATCTTCTTCCACAACCTTTGTCAAAGTACCCTCACTAA
 GAACTCCAAGAAACGCCCAAGTCCACCAAGATGCTCAGTCATCAGCTGGTGTCCAGCCAGGGTGAAC
 AGAGGCCCTGATCTTGGATCTTCTTGACAAAATGAAGAATCCTGGGAAGGGGCTGCCTGTTGATATTGAAG
 ATGAGGAGCCTGAGCCACCCCTGCCATCCCTCGGCGGATCAGATCTACCTACCGGGCCAGCTCACTAGG
 GATCCCAGACGCAGACTGCTGCCGGCGGCAATGGAGTCCAGAGGCCAGATGCGTGGACTGCAGACCT
 CAGGCTGAAACTGTTTCGCTTATATCCCCTGCACACTTCGGGAGCACCAGTCCCAGGAGTCAAGTGTGAG
 ATCTGATGACGACTATGATGATGTGGACATCCCTGCCCTTCAGAGAACATACTCTCCACTGCCCCC
 CAAGCCCAAGTTTCGGTCTCCATCAGATGATGGTTCTGGAGGAATTAGGGATGATGGGCAATTGAGTCCA
 GGGGTTCTGGTTCGATGTGCAAGTGGGCCCCCTCCACGTACTCCCCGACCTGGACCTCCCCAGCGACCC
 GCAGCCCTCACCTCACAGCTCGCTCAGATCCCTCATTGTGGAACCCAGCTGCTCCGGAGCCAGGCCAGCC
 CCCACTCGTACCCCAAGGAAGGAAAAGATGAGGGGAAAGATGGAGAACGAGAAGCGCAGAGAGAAAATAT
 CCCCTTCTTGAAAATTATTCAACGGCTGTCCCCTCCAGATCCACAGCACAGCTGCCTGGACACATCCCT
 CTACAAAAGATCAGAACCTGCTCCTGGGGCAGAGGAAGGCATTTTCATACTGAACCGGAATGATCAGGA
 GGCCACGCTGAAATGATCTTCCCTGGCCGCACAACCTGGCTCTATTGCATCAACAACCTCTCATGTCT
 CTCTCAGGAAGACACCCTACCTGTATTCTCATAGCATCTGGGCTGCTTGAAAGGAAAGACGGCAGAA
 CAGGAAGCCCCATTGCTCACATTAGCCCTACCGGTTACTGGCAAGAAAGAACATGGTCTCCAGTAAAGAT
 CCAGGACACCAAAGGCTGCCGGGCTTGCTGTGTGGGTGAGAGCCAGCTTCCCTCCGGGTGCAGAGTGATG
 GGGCGGGCCGGTGCCTGGCCAGTGTCTACTCAA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209699 representing BC005433
 Red=Cloning site Green=Tags(s)

MALVDPDIFNKDPREHYDLLQRLGGGTYGEVFKARDKVKSKDLVALKMKVMEPDDDVATLQKEILMLKTCR
 HANIVAYHGSYLWLQKLWICMEFCGAGSLQDIYQVTGSLSELQISYVCREVLQGLAYLHSEKKIHRDIK
 ANILINDCGEVLADFGISAQIGATLARLSF IGTPYWMPEVAVAVALKGGYNELCDIWSLGITAIELAE
 LQPPLFDVHPLRVLFMTKSGYQPPRLKEKSRWSSFHNFVKVTLTKNSKKRPSATKMLSHQLVSPGLN
 RGLILDLLDKMKNPGKGLPVDIEDEEPEPPPAIPRRIRSTYRASSLGIPDADCCRRQMEFQRPRCVD CRP
 QAETVRLYPPAHFGSTSPRSQSDSDDDYDDVDIPAPSENI PPPLPPKPKFRSPSDDGSGGIRDDGQLSP
 GVLVRCASGPPPRTRPRGPPPATRSPHLTARS DPSLWNPAAPEPQPPLVPPRKEKMRGMENEKREKY
 PLLVKLFNGCPLQIHSTAATHPSTKDQNL LLAGEEGIFILNRNDQEATLEMI FPGRTTWLYCINLLMS
 LSGKTPYLYSHSILGLLERKDGRTGSP IAHISPHRLLARKNMVSSKI QDTKGCRAACCVGESQLPSGCRVM
 GRAGAWPVSTQ

TRTRPLE – GFP Tag – V

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:	<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:	BC005433 , AAH05433
RefSeq Size:	2783 bp
RefSeq ORF:	1925 bp
Locus ID:	26411
Cytogenetics:	7 B1
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]