

Product datasheet for **MR217292**

Map4k1 (NM_008279) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Map4k1 (NM_008279) 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:

>MR217292 representing NM_008279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTTGTGGACCCCGACATTTTTAATAAGGACCCTCGAGAACACTATGATCTACTGCAACGACTGG
 GTGGTGGAACTTATGGAGAAGTATTCAAGGCTCGCGACAAGGTGTCTAAGGACCTGGTGGCTTTGAAGAT
 GGTGAAGATGGAGCCTGATGATGACGTCGCCACCCCTTCAGAAGGAGATTCTCATGCTGAAAACTGCCGG
 CACGCCAACATCGTGGCTTACCATGGCAGTTACCTCTGGCTGCAGAAGCTGTGGATCTGCATGGAATTCT
 GTGGAGCTGGTTCTCTCCAGGACATCTACCAAGTACTGGCTCTCTGTCCGAGCTCCAGATCAGCTATGT
 GTGCCGGGAAGTCTTCCAGGACTGGCTACCTGCATTACAGAGAAGAAGATACATCGAGACATCAAGGGA
 GCCAACATCCTCATCAACGACTGCGGGGAGGTTAAGCTGGCTGACTTTGGGATCTCAGCCCAGATTGGGG
 CGACACTGGCCCCGGCCCTTTCTTTTATTGGGACACCGTACTGGATGGCTCCAGAGGTGGCAGCGGTGGC
 CCTGAAGGGTGGATAACAATGAGCTGTGCGACATCTGGTCTCTTGGCATCACAGCCATCGAGCTGGCTGAG
 CTTCCAGCCCCCTCTTTGATGTGCACCCTCTCAGGGTTCTTCTCCTCATGACCAAGAGCGGGTACCAGC
 CTCTCGGCTGAAGGAAAAGAGCAGATGGTCATCTTCTTCCACAACCTTTGTCAAAGTACCCCTCACTAA
 GAACTCCAAGAAACGCCCAAGTCCACCAAGATGCTCAGTCATCAGCTGGTGTCCAGCCAGGGCTGAAC
 AGAGGCCCTGATCTTGGATCTTCTTGACAAAATGAAGAATCCTGGGAAGGGGCTGCCTGTTGATATTGAAG
 ATGAGGAGCCTGAGCCACCCCTGCCATCCCTCGGCGGATCAGATCTACCTACCGGGCCAGCTCACTAGG
 GATCCCAGATGCAGACTGCTGCCGGAGGCAAATGGAGTCCAGAGGCCAGATGCGTGGACTGCAGACCT
 CAGGCTGAAACTGTTTCGCTTATATCCCCCTGCACACTTCGGGAGCACCAGTCCCAGGAGTCACTGTCAG
 ATCTGATGACGACTATGATGATGTGGACATCCCTGCCCTTCAGAGAACATACTCCTCCACTGCCCCC
 CAAGCCCAAGTTTCGGTCTCCATCAGATGATGGTCTGGAGGAATTAGGGACGATGGGCAATTGAGCCCA
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 CCCACTCGTACCCCAAGGAAGGAAAAGATGAGGGGAAAGATGGAGAACGAGAAGCGCAGAGAGAAATAT
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 GGCCACGCTGAAATGATCTTCCCTGGCCGCACAACCTGGCTCTATTGCATCAACAACCTCCTCATGTCT
 CTCTCAGGGAAGACACCCTACCTGTATTCTCATAGCATCTGGGCTGCTTGAAAGGAAAGACGGCAGAA
 CGGGAAGCCCCATTGCTCACATTAGCCCTACCGGTTACTGGCAAGAAAGAACATGGTCTCCAGTAAGAT
 CCAGGACACCAAAGGCTGCCGGGCTTGCTGTGTGGCTGAGAGTGTAGCTCTGGGGGCCATTCTTATGT
 GGGGCAATTGGAGACGCTGTGGTTTTGCTCCAGTGGTACCAACCAATGAACAAATTTCTTGCTGTCCGGC
 AGGTGCTGTTCCCGCTGCCACGCCGCTGCCGGTGTTCACGCTGCTGACAACGCCGGGCTCCGAGCTGCC
 AGCTGTGTGCATCGGCGTGAGCCCGGGCAGGCGGCAAAGTCCGTGCTCTTCCACACCGTGCCTTCGGT
 GCGCTGTCTGCTGGCTGGACGACTCCAGCACGGAGCACAAAGGGACCAGTGCAGGTGATCCAAGTAAAG
 AAGACATGGTGTGGTGTGATGGATGGCTCTCTAAAGCTAGTGACCCAGAGGGGGCACCAGCTCCTGG
 GCTCCGCACCCCTGAGATCCCCATGACAGAAGCGGTTCGAGGCTGTGGCTATGGTTGAAGATCGACTCGAG
 GCCTTCTGGAAGCATGGAGTTCAGGTGTGGGCTCCAGGCTTGAACAGCCGCTGCAGGAGCTGAGAGACC
 CCACCCTCACCTTCCGTCTGCTCTGCTCCCCAGGCCGTAAGTGGTGGAGACAAGGCCACCGGATGACCC
 TACGGCCCCAGCAACCTCTACATCCAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217292 representing NM_008279
Red=Cloning site Green=Tags(s)

MALVDPDIFNKDPREHYDLLQRLGGGTYGEVFKARDKVSVDLVALKMKMEPDDDDVATLQKEILMLKTCR
HANIVAYHGSYLWLQKLWICMEFCGAGSLQDIYQVTGSLSELQISYVCREVLQGLAYLHSEKKIHRDIKG
ANILINDCGEVKLADFGISAQIGATLARRLSFIGTPYWMPEVAVALKGGYNELCDIWSLGITAIELAE
LQPPFLFDVHPLRVLFMTKSGYQPPRLKEKSRWSSSFHNFVKVTLTKNSKKRPSATKMLSHQLVSPGLN
RGLILDLLDKMKNPGKGLPVDIEDEEPEPPPAIPRRIRSTYRASSLGIPDADCCRRQMEFQRPRCVD CRP
QAETVRLYPPAHFGSTSPRSQLSDSDDDYDDVDIPAPSENIPPLPPKPKFRSPSDDGSGGIRDDGQLSP
GVLVRCASGPPPRTPRPGPPPATCSPHLTARSDPSLWNPAAPEPGQPPLVPPRKEKMRGKMENEKRREKY
PLLVKLFNGCPLQIHSTAATHPSTKDQNLGAEEGIFILNRNDQEATLEMIFFGRTTWLYCINNLLMS
LSGKTPYLYSHSILGLLERKDGRTGSPIAHISPHRLLARKNMVSSKIQDTKGCRAACVAESASSGGPFLC
GALETSVLLQWYQPMNKFLLVRQVLFPLPTLPVFTLLTTPGSELPAVCIGVSPGQAASVLFHTVRFG
ALSCWLDSSSTEHKGPVQVIQVKEDMVMVMDGSLKLVTEGAPAPGLRTPPEIPMTEAVEAVAMVEDRLE
AFWKHGVQVWAPGLKQPLQELRDPTLTFRLLCSPRPVVVETRPTDDPTAPSNLYIQE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_008279.2](#), [NP_032305.2](#)

RefSeq Size: 2699 bp

RefSeq ORF: 2484 bp

Locus ID: 26411

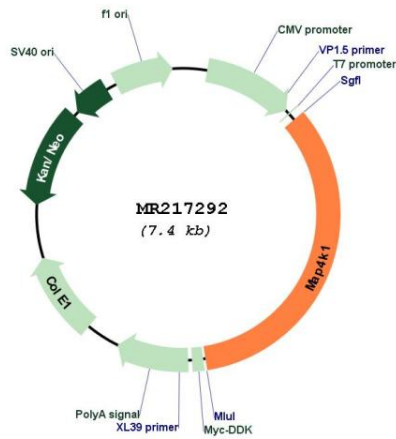
UniProt ID: [P70218](#)

Cytogenetics: 7 B1

MW: 92 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 MR217292