

Product datasheet for **MC220972**

Mapk6 (NM_027418) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk6 (NM_027418) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapk6
Synonyms:	2610021I23Rik; D130053K17Rik; Erk3; Mapk4; Mapk63; Prkm4; Prkm6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220972 representing NM_027418
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGAGAAATTCGAAAGTCTCATGAACATTATGGCTTTGATCTGGGCTCTAGGTACATGGACTTAA
 AACCATTTGGGCTGCGGAGGCAATGGCTTGGTCTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGC
 CATCAAGAAAATTGCTCTCACCGATCCCCAGAGTGTCAAACATGCTCTCCGTGAAATCAAAATTATTGCA
 AGACTTGACCACGATAACATTGTGAAAGTGTGAAATTTGGTCCCAGTGGAAGCCAGTTAACAGACG
 ATGTGGGCTCTCTCACGGAGCTGAATAGCGTCTACATTGTTCCAGGAGTATATGGAGACAGACTTGGCGAA
 TGTGCTGGAGCAGGGCCCTTTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGTGGGCTC
 AAATATATCCATTCTGCAAACGTAAGTGCACAGAGATCTCAAGCCAGCTAATCTTTTCATTAACACTGAAG
 ACTTGGTCTGAAGATAGGTGACTTTGGCTGGCAGGATCATGGATCCTCATTATCCCATAAGGGTCA
 TCTTTCTGAAGGATTGGTTACCAAATGGTACAGATCTCCACGGCTTTTACTTTCTCCTAATAATTACT
 AAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCTGAGATGCTGACTGGTAAAACCCCTCTTTGCGAG
 GTGCACATGAACCTGAACAGATGCACTGATCCTCGACTCCATCCCTGTTGTGCACGAGGAGGATCGGCA
 GGAGCTTCTCAGCGTGATTCCAGTTTACATTAGAAACGACATGACTGAGCCACACAGACCCTCACTCAG
 CTGCTGCCGGGGATCAGCCGAGAAGCACTGGATTTCTGGAGCAGATTCTGACTTTCAGCCCCATGGACC
 GGCTGACAGCTGAGGAAGCCCTTTCCATCCTTACATGAGCATCTACTCCTTCCCAGCGGATGAGCCAT
 CTCAAGCCACCCTTTCCACATAGAGGACGAAGTGGACGACATTTTGCTTATGGATGAAACACACAGTCAC
 ATTTATAACTGGGAAAGGTACCACGATTGTCAGTTCTCGGAGCATGACTGGCCTATTGATAACAACCTTTG
 ATATCGATGAGGTGACGTTGACCAAGAGCTCTGTCTGACGTCACCGATGAAGAAGAAGTCCAAGTTGA
 TCCTCGAAAATACTTGGATGGAGACCGAGAGAAGTATCTAGAGGATCCCGCCTTCGACACCAGCTACTCT
 GCTGAACCCTGCTGGCAGTACCCAGATCACACGAGAACAAGTACTGCGATCTGGAGTGTAGCCACACCT
 GTAACACAAAACAAGATCATCACCATACTTAGATAAACCTGGTGTGGAGGGAGAGCGAGGTTAACCATTA
 CTATGAGCCCAAGCTTATTATAGATCTTTCCAAGTGGAAAGAGCAAAGTAAAGAAAAATCCGATAAGAGA
 GGCAAGTCCAAGTGTGAGAGGAACGGGTTGGTCAAGGCGCAGATCGCGCTAGAGGAAGCATCCCAGCAGC
 TGGCTGAGAGGGAGAGGGCCCAAGGCTTCGACTTTGACTCCTTCATCGCGGGGACCATTGAGCTCAGTGC
 CCAGCATCAGTCTGCTGACGTAGTTGACAAGTTAAACGACTTGAATAGCTCAGTGTCCAGCTAGAATTG
 AAAAGCCTGATATCCAAGTCAGTCAGCCGAGAAAAGCAAGAAAAGGGAAGGGCTAACCTGGCCCAGCTGG
 GAGCCTTGTACCAGTCTCCTGGGACAGCCAGTTTGTGAGTGGCGGGGAGGAGTCTCCTCATCAGTCA
 GTTTTGTTGTGAGGTGAGGAAGGACGAGCATGCGGAGAAGGAGAACACCTACACCAGCTATTTGGACAAG
 TTTTTTAGCAGGAAGGAGGATTCCGAAATGCTAGAAAAGTGGCCAGTGGAGGAAGGGAAGCGTGGGGAGA
 GAGGCCGTGAGGCAGGGCTTCTGAGCGCGGTGGGGAGTTCTCCTGAGCAAGCAGCTGGAGTCCATAGG
 CACCCCGCAGTTCACAGCCAGTGGGGTCCCCACTCAAGTCCATCCAGGCCACCTTGACACCTTCCGCT
 ATGAAATCTTCCCTCAAATCCCTCACAAAGACATACAGCAGCATTCTGAAACATCTGAAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_027418
Insert Size: 2163 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_027418.2</u> , <u>NP_081694.1</u>
RefSeq Size:	4209 bp
RefSeq ORF:	2163 bp
Locus ID:	50772
UniProt ID:	<u>Q61532</u>
Cytogenetics:	9 42.3 cM
Gene Summary:	<p>Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK3/MAPK6 is phosphorylated at Ser-189 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK3/MAPK6. May promote entry in the cell cycle.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>