

Product datasheet for **SC118465**

MAPK6 (NM_002748) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAPK6 (NM_002748) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPK6
Synonyms:	ERK3; HsT17250; p97MAPK; PRKM6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002748 edited
ATGGCAGAGAAATTTGAAAGTCTCATGAACATTCATGGTTTTGATCTGGGTTCTAGGTAT
ATGGACTTAAAACCATTGGGTTGTGGAGGCAATGGCTTGGTTTTTCTGCTGTAGACAAT
GACTGTGACAAAAGAGTAGCCATCAAGAAAATTGTCCTTACTGATCCCCAGAGTGTCAA
CATGCTCTACGTGAAATCAAAATTATTAGAAGACTTGACCATGATAACATTGTGAAAGTG
TTTGAGATTCTTGGTCCCAGTGGGAAGCCAATTAACAGACGATGTGGGCTCTCTTACGGAA
CTGAACAGTGTTTACATTGTTTCCAGGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAG
CAGGGCCCTTTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTC
AAGTATATTTCACTCTGCAAATGTACTGCACAGAGATCTCAAACCAGCTAATCTTTTCATT
AATACGGAAGACTTGGTCTGAAGATAGGTGACTTTGGTCTTGCACGGATCATGGATCCT
CATTATTTCCATAAGGGTCATCTTTCTGAAGGATTGGTTACTAAATGGTACAGATCTCCA
CGTCTTTTACTTTCTCCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGC
ATCTTTGTGAAATGCTGACTGGTAAAACCCTTTTGCAGGTGCACATGAACTTGAACAG
ATGCAGCTGATTTTGAATCTATTCTGTGTACATGAGGAAGATCGTCAGGAGCTTCTC
AGCGTAATTCAGTTTACATTAGAAATGACATGACTGAGCCACACAAAACCTTTAACTCAG
CTGCTTCCAGGAATTAGTCGAGAAGCAGTGGATTTCTGGAACAAATTTTGACATTTAGC
CCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCT
TTTCCAATGGATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGAT
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CAGTTTTTCAAGAGCATGATTGGCCTGTACATAACAACCTTTGATATTGATGAAGTTCAGCTT
GATCCAAGAGCTCTGTCCGATGTCACTGATGAAGAAGAAGTACAAGTTGATCCCCGAAAA
TATTTGGATGGAGATCGGAAAAGTATCTGGAGGATCTGCTTTTGTATACCAATTACTCT
ACTGAGCCTTGTGGCAATACTCAGATCATCATGAAAACAATATTGTGATCTGGAGTGT
AGCCATACTTGTAACTACAAAACGAGGTATCATCATATTTAGATAACTTAGTTTGGAGA
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GAACAAAGCAAAGAAAACTGATAAGAAAAGGCAAATCAAATGTGAAAGGAATGGATTG
GTTAAAGCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGAA
AAGAATCAGGGATTTGATTTTGTATTTTATTGCAGGAAGTATTCAGCTTAGTCCCAG
CATGAGCCTACTGATGTTGTTGATAAAATTAATGACTTGAATAGCTCAGTGTCCCAACTA
GAATTGAAAAGTTTATGATCAAAGTCAGTAAGCCAAGAAAAACAGGAAAAAGGAATGGCA
AATCTGGCTCAATTAGAAGCCTTGTACCAAGTCTTCTTGGGACAGCCAGTTTGTGAGTGGT
GGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAG
AAGGAAAAACACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAAGAAGATACTGAA
ATGCTAGAAAAGTGGAGGATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGA
TTTCTGAACAACAGTGGGGAGTTCTCTTTAAACAAGCAGCTCGAGTCCATAGGCATCCCA
CAGTTTCAAGTCCAGTTGGGTCAACCTTAAGTCAATACAGGCCACATTAACACCTTCT
GCTATGAAATCTTCCCCTCAAATTCCTCATCAACATACAGCAGCATTCTGAAACATCTG
AACTAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002748 unedited</p> <pre>AAACACTCCCCACGAGGCGACTGCGTTTTATCGAGAGCCTCGGAGACGCCGCCGCCCA GCACAGCCGGAGACCTGAGCCGACACTGGGGCAGTCCGCGAGCCCCGCACTCTCTCGAT GAGTCGGAGAAGTCCCCTGTATCAGAGTAAGATGGACGGTAGCTTTGATTGTGATTTTT GTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTTAACCAACAGCCGCCAG GGCTTCCTGTTGAAATAAATATATAGCAACAAAGAAAAAAGCAAAACGGAATAG TGCTTACCAGCACCTTATAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGC ACTGTGAGGAGAATGTTTCATAGAAGCCTGTTGTGTGCATATTTATTCACATTTTTGTTAA ATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATGTCATTTTCATTCCGTTTGAG TTTTCTGTTTTCGTTAAATGTCTGCAGAGTTGCTGCCCTTTCTTGAACATGAGTACTG CAATCTTTTTAATCTCAATATGAATAGAGCTTTTTGAGCTTTATCTAATGGGAACTC GACAGGCTGTTGGCATATGCAATGAACATCAAGAAACCATCTTGCTGTGGGAGCATAA TTATTTTTCTTCTCTTTTTGAAAGATCTTCTTTTTGATGCCAGTTTTCTTCTTGTTT ACACAGTTCAATTTGAAAGGAAATGGCATAGTTAGGGCTTCAAATGCCAAGAGATTT GAAAGTCTCATGAACATCTGGGTTTTGATCTGGGTTCTTAGGATATGGGACTTAATACC ATTGGGTGGTGGAGCCAAGGGCTTGGNTTAGCTGCTGNAGACAATGACGGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002748 unedited</p> <pre>GGCAGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTGGCCATGTTTTATTTGTC CTTTTTCTTCAAACGGATAACCAAAGATACAGACAGTATTCAATAAAATAAAATAGATGA AACAAATCTAAGAGACTGCGATGCCACATGCTACGTTAACCTAATTTTATTCATGCTT GCCTTGGGATGGGAATAGATCATTTCAGTAAAAACATACAGTAAAAACAAAATGTCTTAT CATGTACAACCTTCAAACATAAATAATGATGTACCTTAATTACTTCCATGCACACAAGTC TAACATTTGTTTTTTAAAAATAAACACAATTAAGACTTCTAGGAGCATTTTATAATAA AGTAATTCCTAATTAATTTTTCTTTGTAGATAGATCAAGCACCTCCAAAATACAAATTC TATACACAGTGAGCACGTTACTTAAAAAAGAACACTTAAGTAAATTAAGTACGTGGACAGC CTTATGATAAGCTGACATTATAGATGCAGCTAGGTAGGCAACAAACCATAGTGCCAAATG GAAAAAGTATATTTGCAAATAAATTTTTAAAAACTAAGTTAATTTTTATAATTAATAACA GAAATGATACCAGAACATTTATAAACAGTGAGTGAGTTTTATTAAGAATAGTTTACTACA ATAAACGCTGGCTAAATAGAAGTGCATTTTGTGAAGACTATGGGTGGTATATGTTTTGCC CATACTCTGTACCTTGAGGAGATACACATGTGTACAAATTCGCATCATTTTATGCTGTC TGTATATGTGTTAAGAAAGGGACAGATGAAAACCTGAATACTCTGATGAAAATGTCTCA GAAAAAGCTATTTATGCATNTGTCAGNCTACTGGGTATTTACAGCAGGCTNGTTNCTGAA AAAN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002748
Insert Size:	4000 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:

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_002748.2](#), [NP_002739.1](#)

RefSeq Size: 4193 bp

RefSeq ORF: 2166 bp

Locus ID: 5597

UniProt ID: [Q16659](#)

Cytogenetics: 15q21.2

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Gene Summary: The protein encoded by this gene is a member of the Ser/Thr protein kinase family, and is most closely related to mitogen-activated protein kinases (MAP kinases). MAP kinases also known as extracellular signal-regulated kinases (ERKs), are activated through protein phosphorylation cascades and act as integration points for multiple biochemical signals. This kinase is localized in the nucleus, and has been reported to be activated in fibroblasts upon treatment with serum or phorbol esters. [provided by RefSeq, Jul 2008]