

## Product datasheet for **SC118432**

### MEK6 (MAP2K6) (NM\_002758) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEK6 (MAP2K6) (NM_002758) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEK6
Synonyms:	MAPKK6; MEK6; MKK6; PRKMK6; SAPKK-3; SAPKK3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM\_002758 edited  
ATGTCTCAGTCGAAAGGCAAGAAGCGAAACCCTGGCCTTAAAATTCCAAAAGAAGCATT  
GAACAACCTCAGACCAGTTCCACACCACCTAGAGATTTAGACTCCAAGGCTTGCATTTCT  
ATTGAAAATCAGAACTTTGAGGTGAAGGCAGATGACCTGGAGCCTATAATGGAAC TGGA  
CGAGGTGCGTACGGGGTGGTGGAGAAGATGCGGCACGTGCCAGCGGGCAGATCATGGCA  
GTGAAGCGGATCCGAGCCACAGTAAATAGCCAGGAACAGAAACGGCTACTGATGGATTTG  
GATATTTCCATGAGGACGGTGGACTGTCCATTCCTGTCACCTTTTATGGCGCACTGTTT  
CGGGAGGGTGATGTGTGGATCTGCATGGAGCTCATGGATACACTAGATAAATTCTAC  
AAACAAGTTATTGATAAAGGCCAGACAATTCCAGAGGACATCTTAGGGAAAATAGCAGTT  
TCTATTGTAAGCATTAGAACATTTACATAGTAAGCTGTCTGTCATTACAGAGACGTC  
AAGCCTTCTAATGTACTCATCAATGCTCTCGGTCAAGTGAAGATGTGCGATTTTGAATC  
AGTGGCTACTTGGTGGACTCTGTTGCTAAAACAATTGATGCAGGTTGCAAACCATACATG  
GCCCTGAAAGAATAAACCCAGAGCTCAACCAGAAGGGATACAGTGTGAAGTCTGACATT  
TGGAGTCTGGGCATCACGATGATTGAGTTGGCCATCCTTCGATTTCCCTATGATTGATG  
GAACTCCATTTTCAGCAGCTCAAACAGGTGGTAGAGGAGCCATCGCCACAACCTCCAGCA  
GACAAGTTCTCTGCAGAGTTTGTGACTTTACCTCACAGTGCTTAAAGAAGAATTCAAA  
GAACGGCTACATACCCAGAGCTAATGCAACATCCATTTTACCCTACATGAATCCAAA  
GGAACAGATGTGGCATCTTTTGTAAAAGTATTCTTGAGACTAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002758 unedited GGTTGCACATTTTGTATACGACTCACTCATAGGGCGGCCGCGATTTCGGCACGAGGTGTAG CTGCAGCACAGCCTTCCCTAACGTTGCAACTGGGGNGAAAAATCACTTTCCAGTCTGTTT TGCAAGGTGTGCATTTCCATCTTGATTCCCTGAAAGTCCATCTGCTGCATCGGTCAAGAG AACTCCACTTGCATGAAGATTGCACGCCTGCAGCTTGCATCTTTGTTGCAAACTAGCT ACAGAAGAAGAAGCAAGGCAAAGTCTTTTGTGCTCCCTCCCCATCAAAGGAAAGGGGAA AATGTCTCAGTCGAAAGGCAAGAAGCGAAACCCCTGGCCTTAAAAATCCAAAAGAAGCATT TGAACAACCTCAGACCAGTTCCACACCACCTAGAGATTTAGACTCCAAGGCTTGCAATTC TATTGGAATCAGAACTTTGAGGTGAAGGCAGATGACCTGGAGCCTATAATGGAAGTGGG ACGAGGTGCGTACGGGGTGGTGGAGAAGATGCGGCACGTGCCAGCGGGCAGATCATGGC AGTGAAGCGGATCCGAGCCACAGTAAATAGCCAGGAACAGAAACGGCTACTGATGGATTT GGATATTTCCATGAGGACGGTGGACTGTCCATTACTGTCACCTTTTATGGCGCACTGTT TCGGGAGGGTGTGTGGATCTGCATGGAGCTCATGGATACACTAGATAAATTCTA CAAACAAGTTATTGATAAAGCCACGACATTCCAGAGGACATCTTAGNAAAAATAGCAG TTCTATTGTAAGCATTAGAACATTTACATAGTAAGCTGTCTGTCATTACAGAGACGT CAAGCCTTCTTATGTACTCATCAATGCTCTCCGGTCAGTGAAGATGTGCGATTNTGGAAT CAGTGGCTCCTTGTGGGACCTGTTGCTAAAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002758
<b>Insert Size:</b>	1850 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002758.2</a> , <a href="#">NP_002749.2</a>
<b>RefSeq Size:</b>	2924 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	5608
<b>UniProt ID:</b>	<a href="#">P52564</a>
<b>Cytogenetics:</b>	17q24.3
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase

<b>Protein Pathways:</b>	Amyotrophic lateral sclerosis (ALS), Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcription activation and apoptosis. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) differs from variant 2 in its 5' terminus which contains an upstream in-frame translational start codon. Thus, this variant encodes isoform 1 that is 56 aa longer at N-terminus than isoform 2.</p>