

## Product datasheet for **SC110237**

### MAP4K5 (NM\_006575) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4K5 (NM_006575) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP4K5
Synonyms:	GCKR; KHS; KHS1; MAPKKKK5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_006575 edited
ATGGAGGCCCGCTGCGGCTGCCGCGGACATCCTGAGGCGGAACCCGAGCAGGACTAC
GAACTCGTCCAGAGGGTCGGCAGCGGCACCTACGGGGACGTCTATAAGGCCAGAAATGTA
CACACAGGAGAGCTGGCTGCAGTAAAAATCATTAAATTGGAGCCTGGAGATGATTTTTCT
TTGATTCAACAAGAAATATTTATGGTTAAAGAATGTAACATTGTAACATCGTTGCCTAC
TTTGGGATTTATCTTAGTCGGGAAAAACTATGGATTTGTATGGAATACTGTGGTGGCGGA
TCACCTCAAGATATTTACCATGTTACTGGACCATTATCAGAATTGCAAATAGCCTATGTA
TGCAGAGAAACCTTACAGGGTCTTGCCTATTTGCATACTAAAGGCAAAATGCATAGAGAT
ATCAAAGGTGCTAATATTTTATTGACAGACCATGGCGATGTAATAATTAGCTGACTTTGGT
GTGGCTGCAAAAAAACAGCTACCATTGCAAAACGAAAACTTTTCATTGGCACCCCTTAC
TGGATGGCCCCAGAAGTTGCAGCAGTAGAGAAGAATGGTGGTACAACCAACTCTGTGAT
ATCTGGGCAGTAGGAATAACAGCAATTGAACTTGGAGAACTTCAGCCACCTATGTTTGAT
CTCCACCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCCAAAATA
AAGGACAAAAACAAATGGTCATCAACATTCCATAATTTTGTCAAAATAGCACTAACCAAA
AACCCAAAAAAAAGACCAACTGTGAAAGACTTCTGACTCACACTTTTGTGCACAGCCA
GGTCTCTCTAGAGCCCTAGCAGTTGAACTGTTAGACAAAAGTGAACAATCCAGATAACCAC
GCATTACACTGAAGCAGATGACGATGACTTTGAGCCCCATGCAATCATTCTGCATACC
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TACCCTGAAGACAACCTTCCGGATGAAGAAAAAGCATCAACCAAAAACATTGTCCTGAT
TCAGAAAGCAGAGCTCCCAAAATCTCAGAAGACAGAGTAGCCCAAGTTGTGGCCTGTG
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GTTTTTGTGATGGCTGTCCTTTGAAAATTAATTGTGCAACATCCTGGATACATCCTGATACA
AAAGATCAGTACATTATTTTGGAACTGAAGATGGTATTTACACACTGAATCTCAATGAG
CTACATGAGGCAACGATGGAACAGTTATTTCCACGGAAGTGTACTTGGCTGTATGTTATC
AATAATACTTTAATGTCATTATCAGAAGGAAAAACCTTTTCAGCTCTACTCTCACAATCTT
ATAGCTTTGTTTGAACATGCCAAAAACCAGGATTAGCTGCCCATATTCAAACCTCACAGG
TTTCCAGACCGAATACTACCAAGAAAAATTCGCTTTAACAACAAAGATTCTCTGATACAAAA
GGCTGCCACAAATGTTGCATAGTCAGAAACCCTTACATGGGACATAAATACCTCTGTGGA
GCTTTACAGTCTGGAATGTTTTACTTCAGTGGTATGAGCCAATGCAGAAATTCATGTTG
ATAAAGCACTTTGATTTTCTTTGCCAAGTCTTTGAATGTTTTTGAATGCTGGTGATA
CCTGAACAGGAATACCCTATGGTCTGTGTAGCTATTAGCAAAGGCACTGAATCGAATCAG
GTAGTTTCAGTTTGGAGACAATCAATTTGAACTCTGCATCTTCATGGTTTACAGAAATGGT
GCAGGCAGCCAGCAGTTAGATTTCCATTCATGTAACACAGTTGGAGAGAGATACCGTTTTA
GTGTGTTTAGACAAATTTGTGAAAATTTGAAATCTACAAGGAAAAATTAATCAAGTAAG
AAACTGGCCTCTGAGTTAAGTTTTGATTTTCGCATTGAATCTGTAGTATGCCTTCAAGAC
AGTGTGTTGGCTTTCTGAAACATGGGATGCAGGGTAAAAGCTTCAAGTCAGATGAGGTT
ACCCAGGAGATTTAGATGAAACAAGAGTTTTCCGCTTATTAGGATCAGACAGGGTTGTC
GTTTTGAAAAGTAGGCCAACAGAAAAATCCTACTGCACACAGCAATCTCTACATCTGGCT
GGACATGAAAATAGTTACTAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006575 unedited CGCGAATTCGGCACCCAGCGGGCGGCGACTGTACGCGCCTCCGCCGCCCGAGAGGACGGC CCGTGCAGCGGCTGAGTGGCGGGCGGCGGACGGCAAACCCGGAGCTGCCGGCCGGCGCG CGGGAGGAGGACGCGGGTTCGGTCTAGGAAACGGAGCTGCGGGCGGAGGCTCCATGTTGG GAAGCGGCGCCGTTTCGTGCTTGTAGCGGGAATCCGGGAGCCGCGGGGTGAGCTGGCGGG GGCCGGGCCCTAAGTGAAGATGGAGGCCCGCTGCGGCCTGCCGCGGACATCCTGAGGCG GAACCCGACAGGACTACGAACCTCGTCCAGAGGGTCGGCAGCGGCACCTACGGGGACGT CTATAAGGCCAGAAATGTACACACAGGAGACTGGCTGCAGTAAAAATCATTAAATTGGA GCCTGGAGATGATTTTTCTTTGATTCAACAAGAAATATTTATGGTTAAAGAATGTAACA TTGTAACATCGTTGCCTACTTTGGGAGTTATCTTAGTCGGGAAAAACTATGGATTGTAT GGAATACTGTGGTGGCGGATCACTTCAAGATATTTACCATGTTACTGGACCATTATCAGA ATTGCAAATAGCCTATGTATGCAGAGAAACCTTACAGGGTCTTGCTATTTGCATACTAA AGGGCAAATGCATAGAGATATCAAAGGTGCTAATATTNTATTGACAGACCATGGCGATGT AAATTAGCTGACTTTGGTGTGGCTGCAAAAATAC
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006575 unedited NNAAACTACTGGTACCGCGCCCTTTCTATGTTTTTTAACATCTGTATAACATTTTATTGT TTGCGTATTGCATAGTGGAAAAAACAAGTCAGAAGACTCATGGTCAGGCTCAACTACT AACTTGCTGTGTAATTTGGATAGATCTCTTAACCTTGCTAAACCTTACTTCCTCATCTG AAAAATAGAGATAACTTATTTTACAGAATTGCTTATTACTGAATGAGATACTTATACT GTTTTCTCTTAAGTAATTAGTCAAAAATAATTATAGAGTTTGCTATTGCTAACCCCTTGT TCATCATCTCAATGCTGTTCTCAATAAATGCATTAAGACAACAGGTACCAATGTAACACT TTAATTTTGAATATTAACAATAGCAAAAAGAAAACAAACCTCAAAAATGACCCTACCCCTT ATTATTTTGAATACTGGCTTTTAAATACTTATTGATACTATCCCATCAGGAATTCAAT TCATTTAAATATTTTTTTCTTCTTCAACCTACTCAAAATGAATACCTACATATGTGAAA AACCCAAGATTACATGTGTAATTTACTTTATAGTTTCTCTCTGGCATAGTATAAGTAAAA TACATATCATGGGCAATTAATACTTCCCCCTGTACATTAGGGATGATAATATATATGA AGATTAATTCCTTATGCATTATCCCTAATGTAAGAAAAATCACAGGTATTTTACTGCT TTGTCAAGAATCATACACATGGTAGACACAGCTAGACATACACACCCCTTTCTAGGAATA TTTCACTATCATCAATATCCTCTGTATGATCCCTTACACTATCTGTAGTTGAAACATAAG AATCCCTTTAAGTAATTCTGTTTTAAAACGGTTATAAAAACCTTTGTTAACCAAATGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006575
<b>Insert Size:</b>	4310 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>

RefSeq:	<a href="#">NM_006575.3</a> , <a href="#">NP_006566.2</a>
RefSeq Size:	4373 bp
RefSeq ORF:	2541 bp
Locus ID:	11183
UniProt ID:	<a href="#">Q9Y4K4</a>
Cytogenetics:	14q22.1
Domains:	ptkinase, CNH
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>This gene encodes a member of the serine/threonine protein kinase family, that is highly similar to yeast SPS1/STE20 kinase. Yeast SPS1/STE20 functions near the beginning of the MAP kinase signal cascades that is essential for yeast pheromone response. This kinase was shown to activate Jun kinase in mammalian cells, which suggested a role in stress response. Two alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1 and 2 encode the same isoform.</p>