

Product datasheet for **SC127493**

MAP4K5 (NM_198794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4K5 (NM_198794) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP4K5
Synonyms:	GCKR; KHS; KHS1; MAPKKKK5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127493 sequence for NM_198794 edited (data generated by NextGen Sequencing)

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ATGGAGGCCCGCTGCGGCCTGCCGCGGACATCCTGAGGCGGAACCCGCAGCAGGACTAC
GAACTCGTCCAGAGGGTCGGCAGCGGCACCTACGGGGACGTCTATAAGGCCAGAAATGTA
CACACAGGAGAGCTGGCTGCAGTAAAAATCATTAAATTGGAGCCTGGAGATGATTTTTCT
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TCACTTCAAGATATTTACCATGTTACTGGACCATTATCAGAATTGCAAATAGCCTATGTA
TGCAAGAAAACCTTACAGGGTCTTGCTATTTGCATACTAAAGGCAAAATGCATAGAGAT
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GTTTTGAAAAGTAGGCCAACAGAAAATCCTACTGCACACAGCAATCTCTACATCTGGCT
GGACATGAAAATAGTTACTAA

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Clone variation with respect to NM_198794.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_198794 unedited</p> <p>CACGAGGGAGTGGCGGGCGGCAACGGCNAACCCGGAGCTGCCGGCCGGCGCGGGGAG GAGGACGCGGGTGCGGTCTAGGAAACGGAGCTGCGGGCGGAGGCTCCATGTTGGGAAGCG GCGCCNNTTCGTGCTTGTAGCGGGAATCCGGGAGCCGGGGTGAGCTGGCGGGGCGG GCCCTAAGTGAAGATGGAGGCCCGCTGCGGCCTGCCGCGGACATCCTGAGGCGGAACCC GCAGCAGGACTACCAACTCGTCCAGAGGGTCCGAGCGGCACCTACGGGGACGTCTATTA GGCCAGAAATGTACACACAGGAGAGCTGGCTGCAGTAAAAATCATTAAATTGGAGCCTGG AGATGATTTTTCTTTGATTCAACAAGAAATATTTATGGTTAAAGAATGTAACATTGTAA CATCGTTGCCTACTTTGGGAGTTATCTTAGTCGGGAAAAACTATGGATTTGTATGAATA CTGTGGTGGCGGATCACTTCAAGATATTTACCATGTTACTGGACCATTATCAGAATTGCA AATAGCCTATGTATGCAGAGAAACCTTACAGGGTCTTGCCTATTTGCATACTAAAGGCA AAATGCATAGAGA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_198794 unedited</p> <p>NTTTTCGTTGNCCGCGCGCATTCTANATCGAGTTTTTTTTTTTTTTTTTTTCAAAA GAACCCTACCCTTTATTATTTTTAGAATACTGGCTTTTAAATACTTATTGATACTATCCC ATCAGGAATTCATTTAAATATTTTTTTCTTCAACCTACTCAAAATGAATAC CTACATATGTAAAAACCAAGATTACATGTGTAATTACTTTATAGTTTCCTCTCTGGCA TAGTATAAGTAAAATACATATCATGGGCAATTAATACTTCCCTGCTACATTAGGGAT GATAATATATGAAGATTAATTCCTTATGCATTATCCCTAATGTAAGAAAAATCACAG GTATTTTATACTGCTTGTCAAGAATACATACACATGGTAGACACAGCTAGACATACACAC CCCTTCTAAGAATATTTCAACTATCATCAATATCTTCTGTATGATCCCTTACAATATCT GTAGTTGAAAACATAAGACTCCCTTTAAGGTAATTCTGTATGAAACTGTATTATAAAAT ACTTTTGTAAAGCAAAATTGCATGTGTGTGTTGAACCCCAAACTCAAGCACTTTAC TACTCTTAAAAGATAACAAAATTTTATACATTATAAAAACAATTTAAGCTGCTCTGCA ACCCTCCTTTGCTAAAAGTTAGATACATTACCCACTCCAGCAAGAGATTAATAAATAAG GATTAATCTTCTGTTTTACAAACCTCACAGAATGGCCAATATAAAAGGGAAAACCTTG TTTGGGAATTCACACATCTTCCCGCTTAAAGAACGCATTACACATGGATCAAAACGGAC CCTAAATTCACCCCTTAAAAACCCCGGATTATCTAAAAACCAGGGCCCTTGTCA AAAACTGGTCTTTTTAAAAGGACGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_198794
Insert Size:	4230 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: [NM_198794.1](#), [NP_942089.1](#)

RefSeq Size: 4421 bp

RefSeq ORF: 2541 bp

Locus ID: 11183

UniProt ID: [Q9Y4K4](#)

Cytogenetics: 14q22.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.