

Product datasheet for **SC125845**

SAPK4 (MAPK13) (BC004428) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SAPK4 (MAPK13) (BC004428) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SAPK4 |
| Synonyms: | MGC99536; mitogen-activated protein kinase 13; mitogen-activated protein kinase p38 delta; OTTHUMP00000016282; p38delta; PRKM13; SAPK4; stress-activated protein kinase 4 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for BC004428 edited
 CGCAGCCGCCACGCCGGGCCGCGGAGATCGGGTGCCCGGGATGAGCCTCATCCGAAAA
 AGGGCTTCTACAAGCAGGACGTCAACAAGACCGCTGGGAGTGCCCAAGACCTACGTGT
 CCCCAGCGACGTCGGCAGCGGGGCCTATGGCTCCGTGTGCTCGGCCATCGACAAGCGGT
 CAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCCCTTCAGTCCGAGATCTTCGCCA
 AGCGCGCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGGGC
 TCCTGGATGTCTTACCCAGCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGA
 TGCCTTTCATGCAGACGGATCTGCAGAAGATCATGGGGATGGAGTTCAGTGAGGAGAAGA
 TCCAGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTACATCCACTCTGCTGGGGTCG
 TGCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTC
 TGGATTTTGGGCTGGCGGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCT
 GGTACCGAGCCCCGAGGTGATCCTCAGCTGGATGCACTACAACCAGACAGTGGACATCT
 GGTCTGTGGGCTGTATCATGGCAGAGATGCTGACAGGGAAAACCTGTTCAGGGGAAAAG
 ATTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGTGCCTGGCAGGAGTTTG
 TGCAGAAGCTGAACGACAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCA
 GGAAGGATTTCACTCAGCTGTTCCACGGGCCAGCCCCAGGCTGCGGACCTGCTGGAGA
 AGATGCTGGAGCTAGACGTGGACAAGCGCCTGACGGCCGCGCAGGCCCTACCCATCCCT
 TCTTTGAACCTTCCGGGACCCTGAGGAAGAGACGGAGGCCAGCAGCCGTTTGATGATT
 CCTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTACAAGGAGATTG
 TGAATTCAGCCCCATTGCCCGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTGTAGG
 GACTCATCTTGCATGGCACCACCGGCCAGACACTGCCAAGGACCAGTATTTGCTACTAC
 CAACTCAGCCCTTCTTGAATACAGCCTTTCAAGCAGAGGACAGAAGGGTCTTCTCCT
 TATGTGGGAAATGGCCCTAGTAGATGCAGAATCAAAGATGTCGGTTGGGAGAACTAGC
 TCTGATCCTAACAGGCCACGTTAAACTGCCCATCTGGAGAATCGCCTGCAGGTGGGGCC
 TTTCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGCCATGGCAG
 TGATGCTGTGTTGGTTTCTAGGGATGCTTAACGAATTACCACAAACCTGGTGGATTGA
 AACAGCAGAACTGATCCCTTACAGTTCTGGAGGCTGGAATCTGGGATGGAGGTGTTG
 GCAGGGCTGTGGTCCCTTGAAGGCTCTGGGAAGAATCCTTCTTGGCTTTTTTAGCT
 TGTGGCGCAGTGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCACTCCAGTCTC
 TGTCTCTTCTGTCTCTCTCTTTTAAACAACAGTCATTGGATTTAGGGCCACCCTAATC
 CTGTGTGATCTTATCTTGATCCTTATTAATTAACCTGCAAACTCTAGTTCCAATAA
 AGTCACATTCTCAGGTAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC004428 unedited
 NGTTCAGATTTTGTATACGACTACTAAGGGCGCCGCGAATTCGCACGAGGCGCAGCCG
 CCACGCCGGGGCCGCGGAGATCGGGTGCCCGGGATGAGCCTCATCCGAAAAGGGCTTCT
 ACAAGCAGGACGTCAACAAGACCGCCTGGGAGTGCCCAAGACCTACGTGTCCCCGACGC
 ACGTCGGCAGCGGGGCCTATGGCTCCGTGTGCTCGGCCATCGACAAGCGGTGAGGGGAGA
 AGGTGGCCATCAAGAAGCTGAGCCGACCCCTTCAGTCCGAGATCTTCGCCAAGCGCGCCT
 ACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGGGCTCCTGGATG
 TCTTACCCAGCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGTATGCCCTTCA
 TGCAGACGGATCTGCAGAAGATCATGGGGATGGAGTTCAGTGAGGAGAAGATCCAGTACC
 TGGTGTATCAGATGCTCAAAGGCCTTAAGTACATCCACTCTGCTGGGGTGTGCACAGGG
 ACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTCTGGATTTTG
 GGCTGGCGGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGTACCCGAG
 CCCCCGAGGTGATCCTCAGCTGGATGCACTACAACCAGACAGTGGACATCTGGTCTGTGG
 GCTGTATCATGGCAGAGATGCTGACAGGGAAAACCTGTTCAGGGGAAAAGATTACCTGG
 ACCAGCTGACCCAGATCCTGANAGTGACCGGGTGCCTGGCAGGAGTTTGTGCAGAAGC
 TGAACGANCAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGAAGGATT
 CACTCAGCTGTTCCACGGGCCAGCCCCAGCTGCGGAA

Restriction Sites: Please inquire

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| ACCN: | BC004428 |
| 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: | BC004428.1 , AAH04428.1 |
| RefSeq Size: | 1834 bp |
| Locus ID: | 5603 |
| Cytogenetics: | 6p21.31 |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway |
| Gene Summary: | This gene encodes a member of the mitogen-activated protein (MAP) kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The encoded protein is a p38 MAP kinase and is activated by proinflammatory cytokines and cellular stress. Substrates of the encoded protein include the transcription factor ATF2 and the microtubule dynamics regulator stathmin. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012] |