

Product datasheet for **SC309648**

MAP4K6 (MINK1) (NM_153827) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP4K6 (MINK1) (NM_153827) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAP4K6
Synonyms:	B55; MAP4K6; MINK; YSK2; ZC3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_153827 edited
GGCTGGCTCCGGGAGATAGCGCCTGTCAGTCGGTGGGTCGGTCCTCGCGCCGGCCCTCC
CCCTCCCCGGTCTCCGGGGAGGCGCGGTGGAGTCCGCCCCGGGTTCTCCGATGGGGG
AGAAGCGGCGACGGCGCAGTGGAGTAACCGAGCCGAGCGTGAGCGGCCCGGTGCCCC
GTTCCCCACGGAGCCATGGGCGACCCAGCCCCGCCCGCAGCCTGGACGACATCGACCT
GTCCGCCCTGCGGGACCCTGCTGGGATCTTTGAGCTTGTGGAGGTGGTCGGCAATGGAAC
CTACGGACAGGTGTACAAGGTCGGCATGTCAAGACGGGGCAGCTGGCTGCCATCAAGGT
CATGGATGTCACGGAGGACGAGGAGGAAGAGATCAAACAGGAGATCAACATGCTGAAAAA
GTACTCTACCACCGCAACATCGCCACCTACTACGGAGCCTTCATCAAGAAGAGCCCCC
GGGAAACGATGACCAGCTCTGGTGGTGTGGAGTTCTGTGGTGTGGTTCAGTGACTGA
CCTGGTAAGAACAACAAAGGCAACGCCCTGAAGGAGGACTGTATCGCCTATATCTGCAG
GGAGATCCTCAGGGTCTGGCCCATCTCCATGCCACAAGGTGATCCATCGAGACATCAA
GGGCAGAAATGTGCTGCTGACAGAGAATGCTGAGGTCAAGCTAGTGGATTTGGGGTGAG
TGCTCAGCTGGACCGCACCGTGGGCAGACGGAACACTTTCATTGGGACTCCCTACTGGAT
GGCTCCAGAGGTTCATCGCTGTGATGAGAACCTGATGCCACCTATGATTACAGGAGTGA
TATTTGGTCTCTAGGAATCACAGCCATCGAGATGGCAGAGGGAGCCCCCTCTGTGTGA
CATGCACCCCATGCGAGCCCTCTCCTCATTCTCGGAACCTCCGCCAGGCTCAAGTC
CAAGAAGTGGTCTAAGAAGTTCATTGACTTCATTGACACATGTCTCATCAAGACTTACCT
GAGCCGCCACCCACGGAGCAGCTACTGAAGTTTCCCTTCATCCGGGACCAGCCACGGA
GCGGCAGTCCGATCCAGCTTAAGGACCACATTGACCGATCCCGGAAGAAGCGGGTGA
GAAAGAGGAGACAGAATATGAGTACAGCGCAGCGAGGAGGAAGATGACAGCCATGGAGA
GGAAGGAGAGCCAAGCTCCATCATGAACGTGCCTGGAGAGTGCAGTCTACGCCGGGAGTT
TCTCCGGCTCCAGCAGGAAAATAAGAGCAACTCAGAGGCTTTAAAACAGCAGCAGCAGCT
GCAGCAGCAGCAGCAGCAGACCCGAGGCACACATCAAACACCTGCTGCACCAGCGGCA
GCGGCGCATAGAGGAGCAGAAGGAGGAGCGGCCCGCGTGGAGGAGCAACAGCGGGGGA
GCGGGAGCAGCGAAGCTGCAGGAGAAGGAGCAGCAGCGCGGCTGGAGGACATGCAGGC
TCTCGCGGGGAGGAGGAGCGCGGCAGCGGAGCGCAGCAGGAATACAAGCGGAAGCA



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GCTGGAGGAGCAGCGGCAGT CAGAACGTCTCCAGAGGCAGCTGCAGCAGGAGCATGCCTA
 CCTCAAGTCCCTGCAGCAGCAGCAACAGCAGCAGCAGCTT CAGAAACAGCAGCAGCAGCA
 GCTCCTGCCTGGGGACAGGAAGCCCTGTACCATTATGGTCGGGGCATGAATCCCCTGA
 CAAACCAGCCTGGGCCGAGAGGTAGAAGAGAGAAACAAGGATGAACAAGCAGCAGAACTC
 TCCCTTGGCCAAGAGCAAGCCAGGCAGCACGGGGCTGAGCCCCCATCCCCAGGCCTC
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 GGAGGGACCGCACAAAGAGCCTGGTGGCACACCGGGTCCCACTGAAGCCATATGCAGCACC
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 TGT CATCCGCCAGAATTCAGACCCACCTCTGAAGGACCTGGCCCCAGCCGAATCCCC
 AGCCTGGTCCGCCAGATAACGAGGCCACCCAAGGTGCCTCAGAGGACCTCATCTAT
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 CGGGACCCAGCCCCATACGGGGCGGCACCATGGTGGTCCAGCGCACCCCTGAAGAGGA
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 CACGGAGAACGGGCTGATGTTGCTGGACCGAAGTGGGACGGGCAAGGTGTATGGACTCAT
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 CTCAGGGAAAAGGAACAACTGCGGGTGTATTACCTGTCTGGCTCCGGAACAAGATTCT
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 CTGCGGGCACTACCGTGTGTGAAATACGAGCGGATTAAGTTCCTGGTCACTCGCCCTCAA
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 GTCCTTTGCCGACCTCCCCACCGCCCTCTGCTGGTGCACCTGACAGTAGAGGAGGGGCA
 GCGGCTCAAGGTCACTATGGCTCCAGTGTGGCTTCCATGCTGTGGATGTGACTCGGG
 GAACAGCTATGACATCTACATCCCTGTGCACATCCAGAGCCAGATCACGCCCCATGCCAT
 CATCTTCTCCCCAACCCGACGGCATGGAGATGCTGCTGTGCTACGAGGACGAGGGTGT
 CTACGTCAACACGTACGGGCGCATCATTAAAGGATGTGGTGTGCTGACGTGGGGGGAGATGCC
 TACTTCTGTGGCTACATCTGCTCCAACAGATAATGGGCTGGGGTGAAGAAAGCCATTGA
 GATCCGCTCTGTGGAGACGGGCCACCTCGACGGGGTCTTCATGCACAAACGAGCTCAGAG
 GCTCAAGTTCCTGTGTGAGCGGAATGACAAGGTGTTTTTGCCTCAGTCCGCTCTGGGGG
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 GCCGCCCTCTTTCCCCTCCCTGGGCTTTTGTCTTTACTGGTTTGATTTCACTGGAGCCT
 GCTGGGAACGTGACCTCTGACCCCTGATGCTTTCTGTGATCACGTGACCATCCTCTTCCCC
 AACATGTCTCTTCCAAACTGTGCTGTCCCAGCTTCTGGGAGGGACACAGCTTCC
 CCTTCCAGGAATTGAGTGGGCCTAGCCCTCCCCCTTTTCTCCATTTGAGAGGAGAGT
 GCTTGGGGCTTGAACCCCTTACCCCACTGCTGCTGACTGGGACGGGCCCTGGACCCCTTT
 ATTTGCACGTACGGGGAGCCGGCTCCCCCTTGAATGTACCAGACCTGGGGGGGTAC
 TGGGCCCTAGATTTTGGGGGTACCAGCCACTCCAGGGGCAGGGACATTTCTTCAAT

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TTCTGAAAGCACTTTAATGATTCCCCTTCCCCAAACTCCAGGGAATGGAGGGGGACCC
CGCCAGCCAAAACATTCCCCCATTCCCGACCCCATCTCCTTCTAGCCCATGCCCTT
CCCCGGTGGAGGGAGGGAGCAGGGAGCCCTCACTCTCCACGCCCTTGCTTGCATCTGTA
TATAGTGTGAGCAGCAAGTAACCCTTCTCTCCCTCCCCCTCACCCCTCCTCAATGTAG
TGGCCTTGGATATCCTGTTTGTAAATAAGACAATTCAACCAGCAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_153827

Insert Size: 5000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain 2 SNPS compared to NM_153827.2.

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_153827.2](#), [NP_722549.2](#)

RefSeq Size: 4989 bp

RefSeq ORF: 3999 bp

Locus ID: 50488

UniProt ID: [Q8N4C8](#)

Cytogenetics: 17p13.2

Domains: pkinase, CNH, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes a serine/threonine kinase belonging to the germinal center kinase (GCK) family. The protein is structurally similar to the kinases that are related to NIK and may belong to a distinct subfamily of NIK-related kinases within the GCK family. Studies of the mouse homolog indicate an up-regulation of expression in the course of postnatal mouse cerebral development and activation of the cjun N-terminal kinase (JNK) and the p38 pathways. [provided by RefSeq, Mar 2016]
Transcript Variant: This variant (3) includes an additional in-frame exon, compared to variant 1, resulting in the longest isoform (3) which has a unique internal segment, compared to isoform 1.