

## Product datasheet for **SC110949**

### **MLK3 (MAP3K11) (NM\_002419) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MLK3 (MAP3K11) (NM_002419) Human Untagged Clone
Tag:	Tag Free
Symbol:	MLK3
Synonyms:	MEKK11; MLK-3; MLK3; PTK1; SPRK
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</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_002419 edited
ATGGAGCCCTTGAAGAGCCTCTTCTCAAGAGCCCTCTAGGGTCATGGAATGGCAGTGGC
AGCGGGGGTGGTGGGGCGGTGGAGGAGCCGGCCTGAGGGGTCTCCAAAGGCAGCGGGT
TATGCCAACCCGGTGTGGACAGCCCTGTTGACTACGAGCCCAGTGGGCAGGATGAGCTG
GCCCTGAGGAAGGGTACCGTGTGGAGGTGCTGTCCGGGACGCAGCCATCTCAGGAGAC
GAGGGCTGGTGGCGGGCCAGGTGGTGGCCAGGTGGGCATCTCCCGTCCAACATATGTG
TCTCGGGTGGCGGCCCGCCCTGCGAGGTGGCCAGCTTCCAGGAGCTGCGGCTGGAG
GAGGTGATCGGCATTGGAGGCTTTGGCAAGGTGTACAGGGCAGCTGGCGAGGTGAGCTG
GTGGCTGTGAAGGCAGCTCGCCAGGACCCCGATGAGGACATCAGTGTGACAGCCGAGAGC
GTTCCGCCAGGAGGCCCGCTCTTCGCCATGCTGGCACACCCCAACATCATTGCCCTCAAG
GCTGTGTGCTGGAGGAGCCCACTGTGCTGGTGTGAGTATGCAGCCGGTGGGGCC
CTCAGCCGAGCTTGCCCGGGCGCGCTGCTCCCATGTGCTGGTCAACTGGGCTGTG
CAGATTGCCCGTGGGATGCACTACCTGCACTGCGAGGCCCTGGTGGCCGTATCCACCGT
GATCTCAAGTCCAACAACATTTGCTGCTGCAGCCCATGAGAGTGACGACATGGAGCAC
AAGACCCTGAAGATCACCGACTTTGGCCTGGCCCGAGAGTGGCACAAAACACACAATG
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CTGCCCATCCCATCCACCTGCCCGAGCCCTTCGCACAGCTTATGGCCGACTGCTGGGCG
CAGGACCCCAACCGCAGGCCCGACTTCGCCTCCATCCTGCAGCAGTTGGAGGGCTGGAG
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CGCGAGATCCAGGTCTCTTCGACGAGCTGCGAGCCAAGGAAAAGGAACTACTGAGCCGC
GAGGAGGAGCTGACGCGAGCGCGGAGCAGCGGTACAGGGCGGAGCAGCTGCGGGCGG
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AGCAAGCTCCGGGCGCGCAGCGCGGAGCGTATCAGCATGCCACTCGACTTCAAGCAC
CGCATCACCGTGCAGGCCTCACCCGGCCTTGACCGGAGGAGAAACGTCTTCGAGGTGGG
CCTGGGGATTGCGCCACCTTTCCCGGTTCCGAGCCATCCAGTTGGAGCCTGCAGAGCCA
GGCCAGGCATGGGGCCGACGTCACCCCGACGCTGAGGACTCAAGCAATGGAGAGCGG
CGAGCATGCTGGGCTTGGGTCCAGTTCACCCAAAGCCTGGGGAAGCCAGAATGGGAGG
AGAAGTCCCAGTGGACGAAGCCACATGGTACCTGGATTGAGTACTCATCCCCCTTA
GGATCTCCTTCCACACCCCGAGCACTCAATGGTAACCCCGCGGCTAGCCTGGAGCCC
GAGGAGCCCAAGAGGCCTGTCCCGCAGAGCGGCTAGCAGCTCTGGGACGCCCAAGCTG
ATCCAGCGGGCGCTGCTGCGCGGACCGCCCTGCTCGCCTCGCTGGGCTTGGCCGCGAC
CTGCAGCCCGGGAGGCCAGGACGCGAGCGGGGAGTCCCCGACAACACCCCGCAGC
CCAACGCCCGGCCCTGCCCGACCGAGCCCGCCCTTCCCGCTCATCTGCTTCTCGTCT
AAGACGCCGACTCCCGCCACTCCTGCACCCCTGTTGCTGGACCTGGGTATCCCTGTG
GGCCAGCGGTAGCCAAGAGCCCCGACGTGAGGAGGAGCCCCGGGAGGCACTGTCTCA
CCCCACCGGGGACATCACGCTCTGCTCCTGGCACCCAGGCACCCACGTTTACCACCC
CTGGGCCATACAGCCGACCTCGCCCTCGCCCTTCGACGCGCATTGATCCCTGGAGC
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GCACCCTGGACCTTGTCCCGACTCAGACCCCTTCTGGGACTCCCGACCTGCCAACCC
TTCCAGGGGGGCCCGAGGACTGCAGGGCACAGACCAAAGACATGGGTGCCCGAGGCCCG
TGGGTGCCGAAGCGGGCCTTGA
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002419 unedited            CCCGGTCAGAATTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGGGCCCT            AGGACAGGCAGTCTCGGCCACTGCGGACGCTCCCTCCACCCCTGCGCAAAAAGACCCA            ACCGGAGTTGAGGCGCTGCCCTGAAGGCCACCTTACACTTGGCTGGGGGCTCGGAGC            CAGGCTCCCAGGACTGCTCCAGAACCGAGGGAAGCTCGGTCCCTCCAAGCTAGCCATGG            TGAGGCGCCGAGGCCCGGGGCCACCCCGGCTGACCACACTGCCCTGGGTGCC            CTCTCCAGAAGCCGAGATGCGGGGGCCGGGAGACAACACTCCTGGCTCCCCAGAGAG            GCGTGGGTCTGGGCTGAGGGCCAGGGCCGGATGCCAGGTTCCGGGACTAGGGCTTG            GCAGCCAGCGGGGTGGGACCACGGGACCCAGAGAAGTCTCCACACATCCCAGCGC            CGGCTCCCGCCATGGAGCCCTTGAAGAGCCTTCTCTCAAGAGCCCTTAGGGTCATGG            AATGGCAGTGGCAGCGGGGTGGTGGGGCGGTGGAGGAGCCGGCTGAGGGGTCTCCA            AAGGCAGCGGTTATGCCAACCCGGTGTGGACAGCCCTGTTGACTACTAGCCAGTGGG            CAGGATGAGCTGGCCCTGAGGAAGGGTGACCGTGTGGAGGTGCTGTCCCGGACGACCC            ATCTCAGGAGACGAGGGTGGTGGCGGGCCAAGTGGGTGGCCAGGTGGGCATCTCCCCG            TNCATATGTGTCTCGGGTGGCGGCCCGCCCTGCGAGGTGGCCAGTTCAGAAGC            TGCNGCTGGAGGAAGTGAACCGCATTGGAAGCTTTGGCCAAGTGTACAGGA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002419 unedited            GCGGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTGGGGAGACAGCTTTTGA            TTATTTGGCTTCTGGCTTACTGGATCCCGAGGCTAAGACTCCAACCCTGGCTGGGGCAG            CAGGAAGGCATCCAGAGAGCCCTGGCCCCAGATACCCCCAGGGCAGGAGGTCCATGCTC            TAAGCCCTAGGGCAGGGCCGAGTAGCAGGACTTGGTCAAAAGTCTGGTGACAGCTGA            GGCCGGCCCTCTCCCTGCACCTCCCCTCCTCCCTGCATCACCCAGCAGGCAATTCCC            TGAGACAGGCTCTGGTCTCCCAACCAGCTGGGTACAGTGTGGGCCCCAGTAGGGCAGG            TGAGCTGGGGGGACCTACAGTTTCAGATGTGGGGGCGCAGGTCCCCCTTCCAGTGTAA            GGCTTCTGTGCAGTGTAGTGTCTGACCCCCAAAGGGGGTGGGGTCCCTGGGGAAAC            TGAGGCAGCTGCAGAGGCTGACCAGCTCCTGTCCAGTGTATGTGTGACTCCTCCTAA            GGCAGCTGGAGCTCGGGGAGTGGCCTGGCCACTCAAGGCCCGCTTCCGGCACCCACG            GGGCTGGGCACCCATGTCTTTGGTCTGTGCCCTGCAGTCTGGGGGCCCCCTGGAANG            GGGTTGCANGTGGGGAGTCCCAAAGGGGTCTGAGTCCGGGAACAANGTCCAGGTGCTCGC            GGGTGCAGCTGTGTGATGCAGGAAAGGCCCTGGCCACTGACCAAGCTCAGGATCATGCG            CTGCAGGGCNAGGCCNAGTCGCTATGAGCCCAGGGTGTGACCTGGGTGCTGGGTGCAGAC            AAACGGAATCCCGTGGGTGAACAGGCCTCCGGGCTCTCTACTGGGGTGGCTGACGTGG            CCAGATATCCGTACACAGGA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002419
<b>Insert Size:</b>	3860 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).

**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\\_002419.3](#), [NP\\_002410.1](#)

**RefSeq Size:** 3574 bp

**RefSeq ORF:** 2544 bp

**Locus ID:** 4296

**UniProt ID:** [Q16584](#)

**Cytogenetics:** 11q13.1

**Domains:** pkinase, TyrKc, SH3, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** MAPK signaling pathway

**Gene Summary:** The protein encoded by this gene is a member of the serine/threonine kinase family. This kinase contains a SH3 domain and a leucine zipper-basic motif. This kinase preferentially activates MAPK8/JNK kinase, and functions as a positive regulator of JNK signaling pathway. This kinase can directly phosphorylate, and activates IkappaB kinase alpha and beta, and is found to be involved in the transcription activity of NF-kappaB mediated by Rho family GTPases and CDC42. [provided by RefSeq, Jul 2008]