

## Product datasheet for **SC107659**

### **MNK1 (MKNK1) (AB000409) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MNK1 (MKNK1) (AB000409) Human Untagged Clone
Tag:	Tag Free
Symbol:	MNK1
Synonyms:	MNK1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for AB000409 edited  
 ATGGTATCTTCTCAAAAAGTTGGAAAAACCTATAGAGATGGGCAGTAGCGAACCCCTTCCC  
 ATCGCAGATGGTGACAGGAGGAGGAAGAAGAAGCGGAGGGCCGGCCACTGACTCCTTG  
 CCAGGAAAAGTTTGAAGATATGTACAAGCTGACCTCTGAATTGCTTGGAGAGGGAGCCTAT  
 GCCAAAAGTTCAAGGTGCCGTGAGCCTACAGAATGGCAAAGAGTATGCCGTCAAAATCATC  
 GAGAAACAAGCAGGGCACAGTCCGAGTAGGGTGTTCGAGAGGTGGAGACGCTGTATCAG  
 TGTGAGGAAACAAGAACATTTTGGAGCTGATTGAGTTCTTTGAAGATGACACAAGGTTT  
 TACTTGGTCTTTGAGAAATTGCAAGGAGGTTCCATCTTAGCCACATCCAGAAGCAAAAAG  
 CACTTCAATGAGCGAGAAGCCAGCCGAGTGGTGCAGGACGTTGCTGCTGCCCTTGACTTC  
 CTGCATACCAAAGGCATTGCTCATCGTGATCTGAAACCAGAAAAATATATTGTGTGAATCT  
 CCAGAAAAGGTGTCTCCAGTGAAAATCTGTGACTTTGACTTGGGCAGTGGGATGAAACTG  
 AACAACTCCTGTACCCCAATAACCACACCAGAGCTGACCACCCCATGTGGCTCTGCAGAA  
 TACATGGCCCCTGAGGTAGTGGAGGTTTACGGACCAGGCCACATTCTACGACAAGCGC  
 TGTGACCTGTGGAGCCTGGGCGTGGTCCTTACATCATGTGAGTGGCTACCCACCCCTTC  
 GTGGGTCACTGCGGGGCCGACTGTGGCTGGGACCGGGGCGAGGCTGCAGGGTGTGCCAG  
 AACAAAGCTGTTTGAAGCATCCAGGAAGGCAAGTATGAGTTTCTGACAAGGACTGGGCA  
 CACATCTCCAGTGAAGCCAAAGACCTCATCTCCAAGCTCCTGGTGCAGATGCAAAGCAG  
 AGACTTAGCGCCGCCAAGTTCTGCAGCACCCATGGGTGCAGGGGCAAGCTCCAGAAAAG  
 GGACTCCCACGCGCAAGTCTCCAGAGAACAGCAGCACAATGGACCTGACGCTCTTC  
 GCAGTGAAGCCATCGCCCTTAACCGCCAGCTATCTCAGCACGAAGAGAACGAACTAGCA  
 GAGGAGCCAGAGGCACTAGCTGATGGCCTCTGCTCCATGAAGCTTTCCCTCCCTGCAAG  
 TCACGCTGGCCCGGAGACGGGCCCTGGCCAGGCAGGCCGTGGTGAAGACAGGAGCCCG  
 CCCACAGCACTCTGA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AB000409 unedited  
 CGTGCAGNATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCGCGTTC  
 TCGGAGGAGCGATCTGCAGGTTTCCATGTCAGAGGCCGATGGAGAAGTGAAGATTGCCAC  
 CTACGCACAAAGGCCATTGAGACACTTCGTGTAGCTGGAAGACACCAACTTCTGACAGG  
 AGCTTTATTTTCAATTTGGGATTTCAAGTTTACAGATGGTATCTTCTCAAAAGTTGGAAAA  
 CCTATAGAGATGGGCAGTAGCGAACCCCTTCCCATCGCAGATGGTGACAGGAGGGAAG  
 AAGAAGCGGAGGGGCCGCGGCACTGACTCCTTGCCAGGAAAGTTTGAAGATATGTACAAG  
 CTGACCTCTGAATTGCTTGGAGAGGGAGCCTATGCCAAAGTTCAAGGTGCCGTGAGCCTA  
 CAGAATGGCAAAGAGTATGCCGTCAAAATCATCGAGAAACAAGCAGGGCACAGTCGGAGT  
 AGGGTGTTTTCGAGAGGTGGAGACGCTGTATCAGTGTGAGGAAACAAGAACATTTTGGAG  
 CTGATTGAGTTCTTTGAAGATGACACAAGGTTTTACTTGGTCTTTGAGAAATTGCAAGGA  
 GGTTCATCTTAGCCACATCCAGAAGCAAAGCACTTCAATGAGCGAGAAGCCAGCCGA  
 GTGGTGCAGGACGTTGCTGCTGCCCTTGACTTCTGCATACCAAAGGCATTGCTCATCGT  
 GATCTGAAACCAGAAAATATATTGTGTGAATCTNCAGAAAAGGTGTCTCCAGTAAAATC  
 TGTGACTTTGACTTGNGCAGTGGGATGAACTGAACAACCTCTGTACCCCATACCACA  
 CCAGAGCTGACCACCCCATGTGGCTCTGCAGATACATGGCNCCTGAGTAGTGGAGGGTC  
 TCACGGACCANGCCACATT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AB000409 unedited  
 GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAGAAATTCAGTTTTATTTAAAT  
 AAGCACAATGTATAAAAGCACCGTGGTGTGTATAAACGCTCTGCCTGACAAATGCAAATC  
 TATTTTCTTTATGTAACCAATAGTTCCACTTATCTGAATGGCTGTACCTTCATGCACAC  
 GGGCAGCAGGCACTGCATTGCTCAAACAGGGAAGTGAGGCTTACCCCTAGTGTGGCTTCA  
 CCTTAGGCACAGAGCACTATCTAACTGCCAGATCTGTGCCACCCACACAAGACCTGGGG  
 ACACAGCAGCAGACCCGATGCTGTCTCTAAGTTCATCACAGGAACAGCTTAAAAATCAGA  
 ATAATAGGAACTGCTGATTAACCCAAAGTGCATGGACATTCTAGAAAGAAGAGCAAGC  
 CGTTCCACTCTCTGGGAAGTTTCAATGGGCTTGCAGTGGGAGTTTAAAGGTATCATCTTTGCT  
 GGAACAGCATGGTTAAAAACACCAAACTTTTTTTTTTAAAAAACGATACTACTGACTTTA  
 GCAGCAATCACAAACAAGGGGATGATAAACGAGGGATACATTTTCAGTACAGCAAGAA  
 AGATTATGTGCTTTTCCGTGCTGCAAACCGGAAGACTGATTTGATTCCCTGAATGACGAA  
 CGCTCCCTGCCCTTCTGATTGAGGGGATGGCTCTGCTCACCCCAAGGGAATACGGCC  
 AAAAAAGCATCCCGAGGACAAAAGAAGGTGGTAAGACCCCATAGGAGGGGACCCAAAAT  
 AGAGGGACGAGCCCTGTGCGCAACCTTTGAAACTGAGGCTTTTGCCTTTCCCTGAAGGT  
 GGAACCCCAACCCCAACTACCACGGTGAAGAGAAGCTTGTATCCACAATCTTGAGG  
 GGGTGAACAGGGCGAGACCCACAGAAAAAATTTCTTCGTCCACCGCAATCATCCCAAGA  
 GAATAGGATGGCTTTCCCTTTCAAAAAACCACTTCGAGAAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

AB000409

**Insert Size:**

2740 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:**

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:** [AB000409.1](#), [BAA19885.1](#)

**RefSeq Size:** 2617 bp

**RefSeq ORF:** 1275 bp

**Locus ID:** 8569

**Cytogenetics:** 1p33

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

**Protein Pathways:** Insulin signaling pathway, MAPK signaling pathway

**Gene Summary:** This gene encodes a Ser/Thr protein kinase that interacts with, and is activated by ERK1 and p38 mitogen-activated protein kinases, and thus may play a role in the response to environmental stress and cytokines. This kinase may also regulate transcription by phosphorylating eIF4E via interaction with the C-terminal region of eIF4G. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Jan 2012]