

## Product datasheet for **SC307838**

### **MNK1 (MKNK1) (NM\_198973) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MNK1 (MKNK1) (NM_198973) Human Untagged Clone
Tag:	Tag Free
Symbol:	MKNK1
Synonyms:	MNK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307838 representing NM_198973. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTATCTTCTCAAAGTTGGAAAACTATAGAGATGGGCAGTAGCGAACCCCTCCCATCGCAGAT
GGTGACAGGAGGAGGAAGAAGAAGCGGAGGGGCCGGCCACTGACTCCTTGCCAGGAAAGTTGAAGAT
ATGTACAAGCTGACCTCTGAATTGCTTGGAGAGGGAGCCTATGCCAAAGTTCAAGGTGCCGTGAGCCTA
CAGAATGGCAAAGAGTATGCCGTCAAAATCATCGAGAAACAAGCAGGGCACAGTCGGAGTAGGGTGTTC
CGAGAGGTGGAGACGCTGTATCAGTGTCCAGGAAACAAGAACATTTTGGAGCTGATTGAGTCTTTGAA
GATGACACAAGGTTTTACTTGGTCTTTGAGAAATTGCAAGGAGGTCCATCTTAGCCACATCCAGAAG
CAAAGCACTTCAATGAGCGAGAAGCCAGCCGAGTGGTGCGGGACGTTGCTGCTGCCCTTGACTTCCTG
CATACCAAAGGCATTGCTCATCGTGATCTGAAACCAGAAAATATATTGTGTGAATCTCCAGAAAAGGTG
TCTCCAGTGAAAACTGTGACTTTGACTTGGGCAGTGGGATGAACTGAACAACCTCTGTACCCCATATA
ACCACACCAGAGCTGACCACCCCATGTGGCTCTGCAGAAATACATGGCCCTGAGGTAGTGGAGGTCTTC
ACGGACCAGGCCACATCTACGACAAGCGCTGTGACCTGTGGAGCCTGGGCGTGGTCTCTACATCATG
CTGAGTGGCTACCCACCTTCGTGGTCACTGCCGGGCCGACTGTGGCTGGGACCGGGCGAGGTCTGC
AGGGTGTGCCAGAACAAGCTGTTTGAAGCATCCAGGAAGGCAAGTATGAGTTTCTGACAAGGACTGG
GCACACATCTCCAGTGAAGCCAAAGACCTCATCTCCAAGCTCCTGGTGCGAGATGCAAAGCAGAGACTT
AGCGCCGCCCAAGTTCTGCAGCACCCATGGGTGCAGGGGAACAGCAGCAATGGACCTGACGCTCTT
CGCAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map: □



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<b>ACCN:</b>	NM_198973
<b>Insert Size:</b>	1044 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_198973.3</a></u>
<b>RefSeq Size:</b>	2618 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	8569
<b>UniProt ID:</b>	<u><a href="#">Q9BUB5</a></u>
<b>Cytogenetics:</b>	1p33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Insulin signaling pathway, MAPK signaling pathway
<b>MW:</b>	39.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks two coding exons, and uses an alternate donor splice site at the 5' non-coding exon compared to variant 1. The second missing exon results in a frame-shift, and a shorter isoform (2) with a distinct C-terminus compared to isoform 1. CCDS Note: The coding region has been updated to scale back the N-terminus to one that is more supported by the available transcript data and by conservation across mammals.</p>