

## Product datasheet for **MC204032**

### **Mknk1 (NM\_021461) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mknk1 (NM_021461) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mknk1
Synonyms:	2410048M24Rik; Mnk; Mnk1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC021369  
 CCACGCGTCCGCGCGGCCGTTCCCGCGGTGGTCAACTAAGATCTCTGTGCTGGAGGAGATGAAGCAGAAG  
 CAGGTGGCAGACTAAAGGACACTGGCTGGACAGAGACCAGCAGATAAACCCTGTGGCTGGAAGACACCA  
 GTCTTGGGATTCCTCTGAGACTCCAAGTTAAAGAACCTTGTGGAGATGGGCAGCAGTGAGCCCCTCCCA  
 TCGTGGATTCTGACAAGAGGAGGAAGAAGAAGCGTAAGACCCGGGCCACCGACTCTCTGCCAGGAAAGTT  
 TGAAGATGTGTACCAGCTGACCTCGGAATTGCTGGGAGAAGGAGCCTATGCCAAAGTCCAGGGTGTGTG  
 AACCTACAGAGTGGGAAGGAGTATGCTGTCAAAATCATCGAGAAGCAAGCCGGGCACAGTCGAAGTCGAG  
 TGTTCCGTGAGGTGGAGACTGTATCAGTGTCAAGGGAACAGGAACATTTTGGAGCTGATTGAATTCCT  
 TGAAGATGACACACGGTTTTACTTGGTCTTTGAGAAATTGCAAGGAGGCTCCATCTAGCACACATCCAG  
 AAGCGGAAGCACTTCAATGAGCGAGAAGCCAGTAGAGTGGTGCAGGACGTCGCCACTGCCCTTGACTTCC  
 TGCACACTAAAGGCATTGCTCACCGTGTCTGAAGCCAGAAAACATACTGTGTAATCTCCAGAAAAGGT  
 GTCTCCGGTAAAATTTGTGACTTTGACTTGGGCAGTGGGGTAAAGTTGAACAACCTCTGCACTCCATA  
 ACCACGCCAGAGCTGACTACTCCATGCGGCTCTGCAGAGTATATGGCACCTGAGGTGGTGGAGGTCTTTA  
 GGGACGAGGCTACTTTCTATGACAAGCGCTGTGACCTGTGGAGCCTGGGTGTGGTCTCTACATCATGCT  
 GAGTGGCTACCCCCCTTTGTAGGTCACGTGGGGCTGACTGTGGCTGGGACCGGGGAGAGGTATGCAGG  
 ATGTGCCAGAACAAGCTGTTTGGAGACTCCAGGAAGGCAAAATACGAGTTTCTGACAAAGACTGGGCTC  
 ACATCTCCAACGAGGCCAAAGACCTCATCTCTAAGCTCCTGGTTCGAGATGCGAAGCAAAGACTCAGTGC  
 TGCCCAGGTTCTGCAGCATCCATGGGTACAAGGGCAAGCTCCAGAAAGGGGACTCCCCACGCCGCAAGTC  
 CTTAGAGAAAACAGCAGCACCATTGGACTTGACTCTTTCGAGCTGAGGCCATTGCCCTGAACGCCCAGC  
 TGTCTCAGCATGAGGAGAATGAAGTGGCCGAGGAACAGGAGGCCCTAGCTGAGGGCTCTGCTCCATGAA  
 GCTGTCCCCTCCATCAAATCTCGCCTGGCTCGAAGGCGAGCCCTGGCCCAGGCTGGCCGAAGCCGAGAT  
 GCAAACCCATGTTTACACCGGCAGGGCTCTGAACCACTGCAGGCACTCCTTGTAGGCTGTCCCAGCGG  
 TGCCCCCTGAAAACCTGTAAGGTCAAAGTGTGAAGTAGGCAGAGGGACCTGCCCTGCAGCCCTGCAGGC  
 CTTTACCATCCACAAGGCTCCCGGTTCCACCCATCCCCATTTCCCTGGAGTCTTCAAAGGAGAAAAG  
 CTTTTTCAAAGGGTGTCTTTGAAAAGGAAAGCAATCACTTGTCACTTTCATATCGCTGCAGCAG  
 GACCGTCTCTGCCGGGCTCCAAAGGCTGCTGATGTGCAGATCCCGGATCCAGCTTGCAGTTGGGGTGC  
 GGGGCTGCAGCCTCAGGGAGTCCAGTTCAGGAGCTGACAGATCTGCGGACGTGCATGCCTTCCCT  
 GCACTGTCACCTCCTTCTGGCGATCCTCCACCTTCTCTGTCTACAGACGCTCTCTGCCTGTCTCTC  
 TCCCTGGTGAGCAAAGCCATCCCCTCAATTGAGGAAGGGCAGGGAACCAGATCAGTCTTCCGGTGTGA  
 ACACAGAGAAGCACATAATCTTTCTTGGCGTGACCGAAATGTTCTCATTTATCATCTCTTCCATGTT  
 TGGGATTGCTGCTAAAGTCAGTATTATTTCTTTTAAAAATATATTTGCTTATTTAAACCATGTTCTTCC  
 AGCAATCATAGAACTTCAAACCTGCACTGCAAGCCGTAGATATCCCCACGCGGATATCCACGCACTTA  
 GGTTTTAATCCTCTCCCCGACAGTCTCAACTGATTTTAAAGCTGTTACTATGATGAAAACGTTAGAGACTG  
 GTGCTTTGATCTCTGTCTGCCGCTGTGCTCCACAAACCCAGGGTAGTCAGACTGCTGTGTCTGAGA  
 GGAAGCCCTGTGCCCTGCTATGAGGAATGCTGCGCCCTGCCCCAGACATGAAGGCACAGCCACTGGAA  
 AATAAGCTGTGGAGTCACGTAACAGATTTGCATATATGACATACAACATTAGTCAACCACAATCACCA  
 AAATTCCTCATAACTTGTGCTGTTTTAATAAATAATTTAAAATTCAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_021461

**Insert Size:** 1248 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:** [BC021369](#), [AAH21369](#)

**RefSeq Size:** 2512 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 17346

**UniProt ID:** [O08605](#)

**Cytogenetics:** 4 D1

**Gene Summary:** This gene encodes a serine-threonine protein kinase that is activated by extracellular signal-regulated kinase or p38 mitogen-activated protein kinases, and it may function in cytokine and environmental stress responses. This kinase is required for phosphorylation of eukaryotic translation initiation factor 4E but it is not required for cell growth during development. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Oct 2013]

Transcript Variant: This variant (3) lacks a portion of the 5' UTR and 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Both variants 2 and 3 encode isoform b.