

## Product datasheet for MR227130

### Mknk2 (NM\_021462) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mknk2 (NM_021462) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mknk2
Synonyms:	2010016G11Rik; Gprk7; Mnk; Mnk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227130 representing NM_021462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTCCAGCCAGCCATTGACATCCCAGATGCCAAGAAGAGAGGCCGGAAGAAAGAGCGCTGTCGGG  
CTACTGACAGTTCTCAGGCAGTTCTGAAGATGTCTATCAGCTGCAGGAGGATGTGCTGGGGGAAGGTGC  
TCACGCTCGTGTGCAGACCTGTGCAATCTCATACCAACCAGGAATATGCTGTCAAGATCATTGAGAAG  
CAGCTGGCCACATCCGACAGGGTGTCCGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACATAGGA  
ATGTTCTAGAAGTATTGAGTTCTTTGAGGAGGAGACCCTTTCTACCTGGTGTGTTGAGAAGATGCGTGG  
CGGATCCATCCTAAGCCACATCCATAGAAGGCCCACTTTAACGAGCTGGAGGCCAGCGTGGTAGTACAG  
GACGTGGCCAGTGGCCTGGACTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCAGAGAACA  
TCCTATGTGAGCACCCCAACCAGGTCTCGCCAGTGAAGATCTGCGACTTCGACCTTGGCAGTGGTATCAA  
ACTCAATGGAGACTGCTCCCCATCTCCACACCAGAGTGTCTACCCCGTGTGGGTGAGTACATG  
GCCCCAGAGGTGGTGGAGGCCTTCAGTGAAGAGGCCAGCATCTACGACAAGCGTGCACCTGTGGAGCC  
TGGCGTCATCCTCTACATCCTGCTTAGTGGCTACCCGCCCTTCGTGGGCCACTGTGGCAGCGACTGTGG  
CTGGGACCGTGGGAGGCCTGTCTGCTGCCAGAACATGCTGTTTGGAGCATCCAGGAGGGCAAGTAT  
GAGTTCCCTGACAAGGACTGGTCCCACATCTCCTTTGCTGCCAAAGACCTCATCTCCAAGCTGTGGTCC  
GAGATGCCAAGCAGAGGCTGAGTGTGCCCAAGTCTGACAGCATCCCTGGGTGCAGGGGTGTGCCCCAGA  
GAACACCTACCACACCTTGGTTCTGCAGAGGAACAGCTGTGCCAAAGACCTCACGTCCTTTGCGGCT  
GAGGCCATCGCCATGAACCGGCAGCTGGCCAGTGTGAGGAGGACGCTGGCAGGACCAGCCTGTGGTCA  
TCCGAGCTACCTCAGCTGCCTGCAGCTGTCCCCACCCTCCAGTCCAAGCTGGCCAGCGGCCAGAG  
GGTAGCTGTGGCCACCCTGTGCTCTGTGGGGATCGCGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA





**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\\_021462.3](#), [NP\\_067437.1](#)

**RefSeq Size:** 3070 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 17347

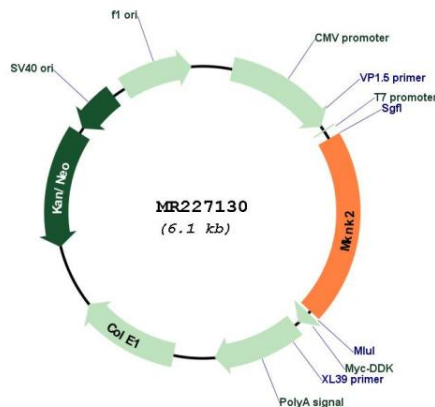
**UniProt ID:** [Q8CDB0](#)

**Cytogenetics:** 10 C1

**MW:** 46.7 kDa

**Gene Summary:** The protein encoded by this gene is a serine/threonine-protein kinase, which is targeted by both the extracellular signal-regulated kinase and p38 mitogen-activated protein kinase pathways. This enzyme targets several substrates including eukaryotic translation initiation factor 4E and mammalian target of rapamycin, which are negatively regulated by its phosphorylation. Null mutant mice do not exhibit developmental or reproductive defects. However, mice null for both this protein and mitogen-activated protein kinase-interacting serine/threonine protein kinase 1 have delayed tumor development in phosphatase and tensin homolog mutant mice, indicating an oncogenic function for this gene in tumor development. [provided by RefSeq, Oct 2014]

### Product images:



Circular map for MR227130