

Product datasheet for **RG213271**

MNK1 (MKNK1) (NM_198973) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MNK1 (MKNK1) (NM_198973) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MNK1
Synonyms: MNK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213271 representing NM_198973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTATCTTCTCAAAGTTGGAAAAACCTATAGAGATGGGCAGTAGCGAACCCCTCCCATCGCAGATG
 GTGACAGGAGGAGGAAGAAGAAGCGGAGGGGCCGGCCACTGACTCCTTGCCAGGAAAGTTGAAGATAT
 GTACAAGCTGACCTCTGAATTGCTTGGAGAGGGAGCCTATGCCAAAGTTCAAGGTGCCGTGAGCCTACAG
 AATGGCAAAGAGTATGCCGTCAAATCATCGAGAAACAAGCAGGGCACAGTCGGAGTAGGGTGTTTCGAG
 AGGTGGAGACGCTGTATCAGTGTGAGGAAACAAGAACATTTTGGAGCTGATTGAGTTCTTTGAAGATGA
 CACAAGGTTTTACTTGGTCTTTGAGAAATTGCAAGGAGGTTCCATCTTAGCCACATCCAGAAGCAAAG
 CACTTCAATGAGCGAGAAGCCAGCCGAGTGGTGCAGGACGTTGCTGCTGCCCTTGACTTCTGCATACCA
 AAGGCATTGCTCATCGTGATCTGAAACCAGAAAATATATTGTGTGAATCTCCAGAAAAGGTGCTCCAGT
 GAAAATCTGTGACTTTGACTTGGGCAGTGGGATGAAACTGAACAACCTCCTGTACCCCATTAACCACCA
 GAGCTGACCACCCCATGTGGCTCTGCAGAATACATGGCCCTGAGGTAGTGGAGGTCTTCACGGACCAGG
 CCACATTCTACGACAAGCGCTGTGACCTGTGGAGCCTGGCGTGGTCTTACATCATGCTGAGTGGCTA
 CCCACCTTCGTGGTCACTGCGGGGCCACTGTGGCTGGGACCGGGCGAGGTCTGCAGGTGTGCCAG
 AACAGCTGTTTGAAGCATCCAGGAAGCAAGTATGAGTTTCTGACAAGGACTGGGCACACATCTCCA
 GTGAAGCCAAAGACCTCATCTCCAAGCTCCTGGTGCAGATGCAAAGCAGAGACTTAGCGCCGCCAAGT
 TCTGCAGACCCATGGGTGCAGGGGAACAGCAGCACAATGGACCTGACGCTCTTCGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213271 representing NM_198973
 Red=Cloning site Green=Tags(s)

MVSSQKLEKPIEMGSSEPLPIADGDRRRKKRRRGRATDSLPGKFEDMYKLTSELLGEGAYAKVQGAVSLQ
 NGKEYAVKIIIEKQAGHSRSRVFREVETLYQCQGNKNIIEFFEDDTRFYLVFEKLGQGSILAHIQKQK
 HFNEREASRVVRDVAALDFLHTKGIHRDLKPENILCESPEKVSPVKICDFDLGSGMKLNNSCTPITTP
 ELTTPCGSAEYMAPEVVEVFTDQATFYDKRCDLWSLGVVLYIMLSGYPPFVGHCGADCGWDRGEVCRVCQ
 NKLFEISIQEGKYEFDPKDWAHISSEAKDLISKLLVRDAKQRLSAAQVLQHPWVQGEQQHNGPDALRS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198973

ORF Size: 1041 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_198973.3 , NP_945324.1
RefSeq Size:	1238 bp
RefSeq ORF:	1008 bp
Locus ID:	8569
UniProt ID:	Q9BUB5
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]

Product images:

