

Product datasheet for **RG227993**

MNK1 (MKNK1) (NM_001135553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MNK1 (MKNK1) (NM_001135553) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MKNK1
Synonyms:	MNK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227993 representing NM_001135553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTATCTTCTCAAAGTTGGAAAAACCTATAGAGATGGGCAGTAGCGAACCCCTTCCCATCGCAGATG
GTGACAGGAGGAGGAAGAAGAAGCGGAGGGGCCCGCCACTGACTCCTTGCCAGGAAAGTTTGAAGATAT
GTACAAGCTGACCTCTGAATTGCTTGGAGAGGGAGCCTATGCCAAAGTTCAAGGTGCCGTGAGCCTACAG
AATGGCAAAGAGTATGCCGTCAAATCATCGAACAAGCAGGGCACAGTCGGAGTAGGGTGTTCGAG
AGGTGGAGACGCTGTATCAGTGTGAGGAAACAAGAACATTTTGGAGCTGATTGAGTTCTTTGAAGATGA
CACAAGGTTTTACTTGGTCTTTGAGAAATTGCAAGGAGGTTCCATCTTAGCCACATCCAGAAGCAAAG
CACTTCAATGAGCGAGAAGCCAGCCGAGTGGTGCAGGACGTTGCTGCTGCCCTTGACTTCTGCATACCA
AAGGCATTGCTCATCGTGATCTGAAACCAGAAAATATATTGTGTGAATCTCCAGAAAAGGTGCTCCAGT
GAAAATCTGTGACTTTGACTTGGGCAGTGGGATGAAACTGAACAACCTCTGTACCCCATTAACCACCA
GAGCTGACCACCCCATGTGGCTCTGCAGAATACATGGCCCTGAGGTAGTGGAGGTCTTACGGACCAGG
CCACATTCTACGACAAGCGCTGTGACCTGTGGAGCCTGGGCGTGGTCTTACATCATGCTGAGTGGCTA
CCCACCTTCGTGGTCACTGCGGGGCCGACTGTGGCTGGGACCGGGCGAGGTCTGCAGGTGTGCCAG
AACAAGCTGTTTGAAGCATCCAGGAAGCAAGTATGAGTTTCTGACAAGGACTGGGCACACATCTCCA
GTGAAGCCAAAGACCTCATCTCCAAGCTCCTGGTGCAGATGCAAAGCAGAGACTTAGCGCCGCCAAGT
TCTGCAGACCCATGGGTGCAGGGCAAGCTCCAGAAAAGGGACTCCCCACGCCAAGTCTCCAGAGG
AACAGCAGCAATGGACCTGACGCTCTTCGAGCTGAGGCCATCGCCCTTAACCGCCAGCTATCTCAGC
ACGAAGAGAACGAACTAGCAGAGGAGCCAGAGGCACTAGCTGATGGCCTCTGCTCCATGAAGCTTCCCC
TCCCTGCAAGTCACGCTGGCCCGGAGACGGGCCCTGGCCAGGCAGGCCGTGGTGAAGACAGGAGCCCG
CCCACAGCACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227993 representing NM_001135553
 Red=Cloning site Green=Tags(s)

MVSSQKLEKPIEMGSSEPLPIADGDRRRKKRRRGRATDSLPGKFEDMYKLTSELLGEGAYAKVQGAVSLQ
 NGKEYAVKIIIEKQAGHSRSRVFREVELYQCQGNKNIELIEFFEDDTRFYLVFEKLQGGSI LAHIQKQK
 HFNEREASRVVRDVAALDFLHTKGIHRDLKPENILCESPEKVSPVKICDFDLGSGMMLNNSCTPITTP
 ELTTPCGSAEYMAPEVVEVFTDQATFYDKRCDLWSLGVVLYIMLSGYPPFVGHGCGADCGWDRGEVCRVCQ
 NKLFEIQEGKYEFDPKDWAHISSEAKDLISKLLVRDAKQRLSAAQVLQHPWVQQAPEKGLPTPQVLQR
 NSSTMDLTLFAAEIALNRQLSQHEENELAEPEALADGLCSMKLSPPCKSRLARRRALAQAGGEDRSP
 PTAL

TRTRPLE - GFP Tag - V

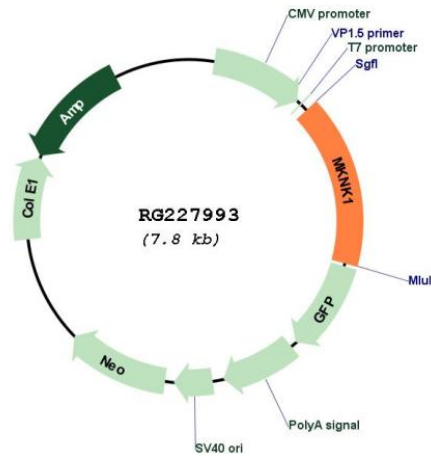
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001135553

ORF Size:	1272 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_001135553.2 , NP_001129025.1
RefSeq Size:	2693 bp
RefSeq ORF:	1239 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]