

Product datasheet for **MC224284**

Mink1 (NM_001045959) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mink1 (NM_001045959) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mink1
Synonyms: B55; Map4k6; MINK; Ysk2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224284 representing NM_001045959
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCGACCCAGCCCCGCGCAGCCTGGACGACATCGACCTGTCTGCCCTGCGGGACCCTGCAGGAA
TCTTTGAGCTGGTGGAGGTGGTTGGCAATGGAACCTATGGACAGGTATACAAGGGCGGCACGTCAAGAC
TGGGCAGCTGGCTGCCATTAAGGTCATGGATGTCACAGAGGATGAGGAGGAAGAGATCAAACAGGAAATC
AACATGTTAAAGAAGTACTCTCACCATCGCAATATTGCCACCTACTATGGGGCCTTTATCAAGAAGACCC
CTCCTGGGAACGATGACCAGCTCTGGCTGGTGTGGAGTTCTGCGGTGCTGGTTCAGTGACCGACCTGGT
AAAGAACAACAAAAGGGAACGCACTGAAGGAGGATTGCATTGCTTACATCTGCAGGGAGATTCTCAGGGGT
CTTGCCCATCTCCATGCCACAAGGTGATCCACAGAGATATCAAGGGACAAAATGTGCTGCTGACAGAGA
ATGCTGAAGTCAAGTGTGGATTTTGGGGTGTGCTCAGCTGGACCGCACTGTGGCAGGCGGAACAC
TTTCATTGGAACCCATACTGGATGGCTCCAGAAGTCAATGCCTGTGACGAGAACCCCGATGCCACCTAT
GACTACAGGAGTGACATTTGGTCTTAGGAATCACAGCCATTGAAATGGCAGAGGGAGCCCCCTCTGT
GTGACATGCACCCTATGCGGGCCCTTCCCTCATCCCTCGAACCCCTCCCCCAGGCTCAAGTCAAAGAA
ATGGTCTAAGAAGTTCACTGACTTCATCGACACGTGTCTCATCAAGACTTACCTGAGCCGCCACCCACC
GAACAGTTACTCAAATCCCCTTCATCCGAGACCAGCCACGGAGCGGCAGGTCCGCATCCAGCTCAAGG
ACCACATCGACCCTCGCGGAAGAAGCGGGGTGAGAAAGAGGAGACAGAGTATGAGTACAGCGGCAGTGA
GGAGGAAGACGACAGCCATGGAGAGGAAGGCGAGCCAAGCTCCATCATGAATGTGCCCGGTGAGTCCACA
CTGCGCAGAGAATTCTCAGACTCCAGCAGGAGAATAAGAGCAACTCTGAGGCTTTAAAGCAGCAGCAGC
AGCTGCAGCAACAGCAGCAGCGGGACCCGGAGGCACACATCAAACACCTGCTGCACCAGCGGCAGCGTGC
CATAGAGGAGCAGAAGGAGGAGCGGCGACGTGTGGAGGAGCAACAGCGGCGAGAGCGAGAACAGCGTAAG
CTACAAGAGAAGGAGCAGCAGCGCGATTGGAAGACATGCAAGCCCTACGACGAGAGGAAGAGAGCGGC
AAGCAGAGCGGGAACAGGAATACAAGCGGAAGCAGCTGGAGGAGCAGCGGCAAGTCAAGAGCGGCTGCAGAG
ACAGCTGCAGCAGGAGCAGCCTACCTCAAGTCCCTGCAGCAGCAGCAGCAGCAGCAGCAGCTCCAGAAG
CAGCAGCAGCAGCAGCAGATCTGCCTGGAGACAGGAAGCCCTGTATCATTACGGTCCGGGCATTA



ATCTCTGCTGACAAGCCAGCATGGGCCCGAGGTGGAAGAGAGAGCAGGATGAACAAGCAGCAGAACT
 TCCCTTGGCGAAGGCGAAGCCAAGCAGTGCAGGCGCCAGAGCCCCCATCTCCCAGGCCTCTCCTAGCCCC
 CCAGGACCTCTTTCCAGACTCCTCCTATGCAGAGGCCTGTGGAGCCCCAGGAAGGACCCGACAAGAGCC
 TGGTGGCACACCCGGTCCCCTGAAGCCATATGCAGCACCTGTACCCCGATCCCAGTCCCTGCAGGACCA
 GCCGACTCGAAACCTGGCTGCCTCCCAGCCTCCCAGCACCCTGACCCTGCTGCTGTCCCTACCCCCACT
 GCCACACCCAGTGCCCGAGGAGCTGTATCCGCCAGAATTCAGACCCACCTCTGAAGGGCCAGGGCCTTA
 GCCCAAACCTCCATCTGGGTTCCGGCTGATAATGAGGCTCCACCTAAGGTTCCACAGAGGACCTTTC
 TATCGCCACTGCCCTAACACCAGTGGGCGCGAGGGTCCCGCCAGCTCAGGCTGTCCGTGCCAGACCT
 CGCAGTAACTCCGCTGGCAAATCTATCTGCAGAGGCGGGCAGAGCGGGGCACCCCAAGCCTCCGGGGC
 CCCCAGCTCAGCCCCCTGGCCCGCCCAACGCCTCTAGTAACCCTGACCTCAGGAGGAGTGACCCTGGCTG
 GGAGCGCTCAGACAGTGTCTCCCGCCTCCCAGGCCACCTCCCTCAGGCTGGCTCCTTGGAGCGGAAC
 CGAAACCGTGTGGGAGCCTCCACAAAATGGATAGCTCTCCAGTGTCTCCCTGGGAACAAAGCCAAGC
 CTGAAGACCACCCTCAAGGCCAGGCCGCGCCGACAGACTTGTGTGCTCAAAGAGCGGACTCTGGATGA
 GGCCCTAAGCCTCCCAAGAAGGCCATGGACTACTCTCATCCAGTGAGGAGGTGAAAGCAGTGAAGAG
 GAGGAGGAGGAAGCGATGGGGAGCCGTGAGAGGGGAGCAGAGACTCCCGGGGCGCCAGTGATGGTG
 ATACAGACAGCGTCAGCACCATGGTGGTTCATGATGTTGAGGAGATATCCGGGACCCAGCCCTCATATGG
 CGGCGGCACCATGGTGGTCCAGCGTACTCCTGAAGAGGAACGAAGCCTGTGCTTGTGATGAATGGC
 TACAAAACTGCCTGATGTGGTCCAGCCAGCCACTCACCTACTGAGAACAGCAAAGGTCAAAGCCCTC
 CAACAAAGGATGGAGGCAGTGATTACCAGTCTCGTGGGCTGGTAAAGGCCCCAGGAAAGAGCTCATTAC
 CATGTTTGTGGATCTAGGGATCTACCAGCCTGGAGGCAGTGGGGACACCATCCCTATCACAGCCCTAGT
 GGTGGAGAAGGTGGTGCCTTGTCAACTGCAGTTCGATGTGAGGAAGGGCTCTGTGGTCAACGTCAATC
 CCACCAACACCCGAGCTCATAGTAAACTCCTGAAATTCGCAAGTACAAGAAGCGATTCAACTCAGAGAT
 CCTATGTGCAGCTCTCTGGGGGTCAACTCCTAGTGGGCACAGAGAATGGGCTGATGTTGTGGACCGA
 AGTGGGCAGGGCAAGGTGTATGGACTTATTGGGCGACGAGCTTCCAGCAAATGGATGTCTTAGAAGGGC
 TCAACTTGCTCATCACCATCTCAGGAAAAGGAACAAACTGCGGGTATATTACCTGCTCCTGGCTTCGAA
 CAAGATCTACACAATGACCCAGAGGTGGAAAAGAAGCAGGGGTGGACCACCGTGGGGGACATGGAGGGC
 TGCGGCCACTACCGTGTGTGAAATATGAACGGATTAAGTTCTGGTCAATGCCCTGAAGAACTCCGTGG
 AGGTTTATGCCTGGGCTCCCAAACCTACCACAAATTCATGGCCTTCAAGTCTTTGCTGACCTCCCTCA
 CCGCCCTCTACTGGTGGACCTGACAGTAGAGGAGGACAGCGGCTCAAGGTCATCTATGGCTCCAGTGT
 GGCTTCCATGCTGTGGATGTTGATTCTGGGAACAGCTATGACATCTACATCCCTGTACATATCCAGAGCC
 AGATCACACCCACGCCATCATTTCTCCCAACACTGATGGCATGGAGATGCTGCTGTGCTATGAAGA
 TGAGGGTGTCTATGTCAACACTTACGGGCGGATCATCAAGGATGTGGTGTGCAGTGGGGAGAGATGCC
 ACCTCTGTGGCCTACATCTGCTCCAACCAGATAATGGGCTGGGGTGAAGAGGCCATAGAGATCCGCTCTG
 TGGAGACAGGCCACCTAGATGGGGTCTTCATGCACAAACGAGCCAGAGGCTCAAGTTCTGTGTGAGCG
 CAATGACAAGGTGTTTTTGCCTCTGTCCGCTCTGGAGGAAGCAGCCAAGTTTACTTTATGACTCTGAAC
 CGTAACTGCATCATGAAGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001045959

Insert Size:

4014 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:	<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:	<u>NM_001045959.1, NP_001039424.1</u>
RefSeq Size:	4973 bp
RefSeq ORF:	4014 bp
Locus ID:	50932
Cytogenetics:	11 B3
Gene Summary:	Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1.[UniProtKB/Swiss-Prot Function]