

Product datasheet for **MC224283**

Mink1 (NM_001045964) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mink1 (NM_001045964) 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: >MC224283 representing NM_001045964
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCGACCCAGCCCCGCCGAGCCTGGACGACATCGACCTGTCTGCCCTGCGGGACCCTGCAGGAA
TCTTTGAGCTGGTGGAGGTGGTTGGCAATGGAACCTATGGACAGGTATAACAAGGGCGGCACGTCAGAC
TGGGCAGCTGGCTGCCATTAAGGTCATGGATGTCACAGAGGATGAGGAGGAAGAGATCAAACAGGAAATC
AACATGTTAAAGAAGTACTCTCACCATCGCAATATTGCCACCTACTATGGGGCCTTTATCAAGAAGAGCC
CTCCTGGGAACGATGACCAGCTCTGGCTGGTGGTGGAGTTCTGCGGTGCTGGTTCAGTGACCGACCTGGT
AAGAACAACAAAAGGGAACGCACTGAAGGAGGATTGCATTGCTTACATCTGCAGGGAGATTCTCAGGGGT
CTTGCCCATCTCCATGCCACAAGGTGATCCACAGAGATATCAAGGGACAAAATGTGCTGCTGACAGAGA
ATGCTGAAGTCAAGTGTGGATTTTGGGGTGTGCTCAGCTGGACCGCACTGTGGCAGGCGGAACAC
TTTCATTGGAACCCATACTGGATGGCTCCAGAAGTCAATGGCTGTGACGAGAACCCCGATGCCACCTAT
GACTACAGGAGTGACATTTGGTCTCTAGGAATCACAGCCATTGAAATGGCAGAGGGAGCCCCCTCTGT
GTGACATGCACCCTATGCGGGCCCTTCCCTCATCCCTCGAACCCCTCCCCCAGGCTCAAGTCAAAGAA
ATGGTCTAAGAAGTTCACTGACTTCATCGACACGTGTCTCATCAAGACTTACCTGAGCCGCCACCCACC
GAACAGTTACTCAAATCCCTTCCATCCGAGACCAGCCACGGAGCGGCAGGTCCGCATCCAGCTCAAGG
ACCACATCGACCCTCGCGGAAGAAGCGGGGTGAGAAAGAGGAGACAGAGTATGAGTACAGCGGCAGTGA
GGAGGAAGACGACAGCCATGGAGAGGAAGGCGAGCCAAGCTCCATCATGAATGTGCCCGGTGAGTCCACA
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CATAGAGGAGCAGAAGGAGGAGCGGCGACGTGTGGAGGAGCAACAGCGGCGAGAGCGAGAACAGCGTAAG
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ACAGCTGCAGCAGGAGCAGCCTACCTCAAGTCCCTGCAGCAGCAGCAGCAGCAGCAGCAGCTCCAGAAG
CAGCAGCAGCAGCAGCAGATCTGCCTGGAGACAGGAAGCCCTGTATCATTACGGTCGGGGCATT



ATCCTGCTGACAAGCCAGCATGGGCCCGGAGGTGGAAGAGAGAGCACGGATGAACAAGCAGCAGAACT
 TCCCTTGGCGAAGGCCAAGCCAAGCAGTGCAGGGCCAGAGCCCCCATCTCCCAGGCCTCTCCTAGCCCC
 CCAGGACCTCTTTCCAGACTCCTCCTATGCAGAGGCCTGTGGAGCCCCAGGAAGGACCCGACAAGAGCC
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 GCCGACTCGAAACCTGGCTGCCTCCCAGCCTCCCAGCACCCTGACCCTGCTGCTGTCCCTACCCCCT
 GCCACACCCAGTGCCCGAGGAGCTGTATCCGCCAGAATTCAGACCCACCTCTGAAGGGCCAGGGCCTA
 GCCCAAACCCCTCATCTGGGTTCCGGCTGATAATGAGGCTCCACCTAAGGTTCCACAGAGGACCTTTC
 TATCGCCACTGCCCTAACACCAGTGGGGCCGGAGGGTCCCGGCCAGCTCAGGCTGTCCGTGCCAGACCT
 CGCAGTAACTCCGCTGGCAAATCTATCTGCAGAGGCGGGCAGAGCGGGGCACCCCCAAGCCTCCGGGGC
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 CTGAAGACCACCCTCAAGGCCAGGCCGCGCCGCAAGCTATAAGCGAGCAATTGGCGAGGACTTTGTGTT
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 GAGGAGGTGAAAAGCAGTGAAGAGGAGGAGGAGGAAGGCCATGGGAGCCGTGAGAGGGGAGCAGAGACA
 CTCGCCGGGGCCGTGATGGTGATACAGACAGCGTCAGCACCATGGTGGTTCATGATGTTGAGGAGATATC
 CGGGACCCAGCCCTCATATGGCGCGGCCACCATGGTGGTCCAGCGTACTCCTGAAGAGGAACGAAGCCTG
 CTGCTTGCTGATAGCAATGGCTACACAAAACCTGCCTGATGTGGTCCAGCCCAGCCACTCACCTACTGAGA
 ACAGCAAAGGTCAAAGCCCTCCAACAAAGGATGGAGGCAGTGATTACCAGTCTCGTGGGCTGGTAAAGGC
 CCCAGGAAAGAGCTCATTACCATGTTTGTGGATCTAGGGATCTACCAGCCTGGAGGCAGTGGGGACACC
 ATCCCTATCACAGCCCTAGTGGGTGGAGAAGGTGGTGCCTTGATCAACTGCAGTTCGATGTGAGGAAGG
 GCTCTGTGGTCAACGTCAATCCCACCAACCCGAGCTCATAGTAAACTCCTGAAATTCGAAGTACAA
 GAAGCGATTCAACTCAGAGATCCTATGTGCAGCTCTCTGGGGGTCAACCTCCTAGTGGCACAGAGAAT
 GGGCTGATGTTGCTGGACCGAAGTGGGCAGGGCAAGGTGTATGGACTTATTGGGGCAGCAGCCTTCCAGC
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 TTACCTGTCTGGCTTCGGAACAAGATCCTACACAATGACCCAGAGGTGAAAAGAAGCAGGGGTGGACC
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 GTCCTTTGCTGACCTCCCTACCGCCCTCTACTGGTGGACCTGACAGTAGAGGAGGGACAGCGGCTCAAG
 GTCATCTATGGCTCCAGTGTGGCTTCCATGCTGTGGATGTTGATTCTGGGAACAGCTATGACATCTACA
 TCCCTGTACATATCCAGAGCCAGATCACACCCACGCCATCATCTTCTCCCAACTGATGGCATGGA
 GATGCTGCTGTGCTATGAAGATGAGGGTGTCTATGTCAACAATTACGGGGCGGATCATCAAGGATGTGGT
 CTGCAGTGGGGAGAGATGCCACCTCTGTGGCCTACATCTGCTCCAACCAGATAATGGGCTGGGGTGA
 AGGCCATAGAGATCCGCTCTGTGGAGACAGGCCACCTAGATGGGGTCTTCATGCACAAACGAGCCCAGAG
 GCTCAAGTTCCTGTGTGAGCGCAATGACAAGGTGTTTTTGCCTCTGTCCGCTCTGGAGGAAGCAGCCAA
 GTTTACTTTATGACTCTGAACCGTAACTGCATCATGAAGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001045964

Insert Size:

4035 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: [NM_001045964.1](#), [NP_001039429.1](#)

RefSeq Size: 4994 bp

RefSeq ORF: 4035 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]