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Product datasheet for MC224186

Mink1 (NM_016713) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mink1 (NM_016713) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mink1
Synonyms:	B55; Map4k6; MINK; Ysk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224186 representing NM_016713
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGACCCAGCCCCCGCCCGCAGCCTGGACGACATCGACCTGTCTGCCCTGCGGGACCCTGCAGGAA
TCTTTGAGCTGGTGGAGGTGGTTGGCAATGGAACCTATGGACAGGTATACAAGGGGCGGCACGTCAAGAC
TGGGCAGCTGGCTGCCATTAAGGTCATGGATGTCACAGAGGATGAGGAGGAAGAGATCAAACAGGAAATC
AACATGTTAAAGAAGTACTCTCACCATCGCAATATTGCCACCTACTATGGGGCCTTTATCAAGAAGAGCC
CTCCTGGGAACGATGACCAGCTCTGGCTGGTGATGGAGTTCTGCGGTGCTGGTTCAGTGACCGACCTGGT
AAAGAACACAAAAGGGAACGCACTGAAGGAGGATTGCATTGCTTACATCTGCAGGGAGATTCTCAGGGGT
CTTGCCCATCTCCATGCCCACAAGGTGATCCACAGAGATATCAAGGGACAAAATGTGCTGCTGACAGAGA
ATGCTGAAGTCAAGCTAGTGGATTTTGGGGTGAGTGCTCAGCTGGACCGCACTGTGGGCAGGCGGAACAC
TTTCATTGGAACCCCATACTGGATGGCTCCAGAAGTCATTGCCTGTGACGAGAACCCCGATGCCACCTAT
GACTACAGGAGTGACATTTGGTCTCTAGGAATCACAGCCATTGAAATGGCAGAGGGAGCCCCCCCTCTGT
GTGACATGCACCCTATGCGGGCCCTCTTCCTCATCCCTCGGAACCCTCCCCCCAGGCTCAAGTCAAAGAA
ATGGTCTAAGAAGTTCACTGACTTCATCGACACGTGTCTCATCAAGACTTACCTGAGCCGCCCACCCACC
GAACAGTTACTCAAATTCCCCTTCATCCGAGACCAGCCCACGGAGCGGCAGGTCCGCATCCAGCTCAAGG
ACCACATCGACCGCTCGCGGAAGAAGCGGGGTGAGAAAGAGGAGACAGAGTATGAGTACAGCGGCAGTGA
GGAGGAAGACGACAGCCATGGAGAGGAAGGCGAGCCAAGCTCCATCATGAATGTGCCCGGTGAGTCCACA
CTGCGCAGAGAATTCCTCAGACTCCAGCAGGAGAATAAGAGCAACTCTGAGGCTTTAAAGCAGCAGCAGC
AGCTGCAGCAACAGCAGCAGCGGGACCCGGAGGCACACATCAAACACCTGCTGCACCAGCGGCAGCGTCG
CATAGAGGAGCAGAAGGAGGAGCGGCGACGTGTGGAGGAGCAACAGCGGCGAGAGCGAGAACAGCGTAAG
CTACAAGAGAAGGAGCAGCAGCGGCGATTGGAAGACATGCAAGCCCTACGACGAGAGGAAGAGAGGCGGC
AAGCAGAGCGGGAACAGGAATACAAGCGGAAGCAGCTGGAGGAGCAGCGGCAGTCAGAGCGGCTGCAGAG
ACAGCTGCAGCAGGAGCACGCCTACCTCAAGTCCCTGCAGCAGCAGCAGCAGCAGCAGCTCCAGAAG

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CAGCAGCAGCAGCAGCAGATCCTGCCTGGAGACAGGAAGCCCCTGTATCATTACGGTCGGGGCATTA
ATCCTGCTGACAAGCCAGCATGGGCCCGCGAGGTGGAAGAGAGAGCACGGATGAACAAGCAGCAGAACTC
TCCCTTGGCGAAGGCGAAGCCAAGCAGTGCGGGGCCAGAGCCCCCCATCTCCCAGGCCTCTCCTAGCCCC
CCAGGACCTCTTTCCCAGACTCCTCCTATGCAGAGGCCTGTGGAGCCCCAGGAAGGACCGCACAAGAGCC
TGGTGGCACACCGGGTCCCACTGAAGCCATATGCAGCACCTGTACCCCGATCCCAGTCCCTGCAGGACCA
GCCGACTCGAAACCTGGCTGCCTTCCCAGCCTCCCACGACCCTGACCCTGCTGCTGTCCCTACACCCACT
GCCACACCCAGTGCCCGAGGAGCTGTCATCCGCCAGAATTCAGACCCCACCTCTGAAGGGCCAGGGCCTA
GCCCAAACCCTCCATCCTGGGTTCGGCCTGATAATGAGGCTCCACCTAAGGTTCCACAGAGGACCTCTTC
TATCGCCACTGCCCTTAACACCAGTGGGGCCGGAGGGTCCCGGCCAGCTCAGGCTGTCCGTGCCAGTAAC
CCTGACCTCAGGAGGAGTGACCCTGGCTGGGAGCGCTCAGACAGTGTCCTCCCGGCCTCCCACGGCCACC
TCCCTCAGGCTGGCTCCTTGGAGCGGAACCGAAACCGTGTGGGAGCCTCCACAAAACTGGATAGCTCTCC
AGTGCTCTCCCCTGGGAACAAAGCCAAGCCTGAAGACCACCGCTCAAGGCCAGGCCGGCCCGCAGACTTT
GTGTTGCTCAAAGAGCGGACTCTGGATGAGGCCCCTAAGCCTCCCAAGAAGGCCATGGACTACTCCTCAT
CCAGTGAGGAGGTGGAAAGCAGTGAAGAGGAGGAGGAGGAAGGCGATGGGGAGCCGTCAGAGGGGAGCAG
AGACACTCCCGGGGGCCGCAGTGATGGTGATACAGACAGCGTCAGCACCATGGTGGTTCATGATGTTGAG
GAGATATCCGGGACCCAGCCCTCATATGGCGGCGGCACCATGGTGGTCCAGCGTACTCCTGAAGAGGAAC
GAAGCCTGCTGCTTGCTGATAGCAATGGCTACACAAACCTGCCTGATGTGGTCCAGCCCAGCCACTCACC
TACTGAGAACAGCAAAGGTCAAAGCCCTCCAACAAAGGATGGAGGCAGTGATTACCAGTCTCGTGGGCTG
GTAAAGGCCCCAGGAAAGAGCTCATTCACCATGTTTGTGGATCTAGGGATCTACCAGCCTGGAGGCAGTG
GGGACACCATCCCTATCACAGCCCTAGTGGGTGGAGAAGGTGGTCGCCTTGATCAACTGCAGTTCGATGT
GAGGAAGGGCTCTGTGGTCAACGTCAATCCCACCAACACCCGAGCTCATAGTGAAACTCCTGAAATTCGC
AAGTACAAGAAGCGATTCAACTCAGAGATCCTATGTGCAGCTCTCTGGGGGGTCAACCTCCTAGTGGGCA
CAGAGAATGGGCTGATGTTGCTGGACCGAAGTGGGCAGGGCAAGGTGTATGGACTTATTGGGCGACGACG
CTTCCAGCAAATGGATGTCTTAGAAGGGCTCAACTTGCTCATCACCATCTCAGGGAAAAGGAACAAACTG
CGGGTATATTACCTGTCCTGGCTTCGGAACAAGATCCTACACAATGACCCAGAGGTGGAAAAGAAGCAGG
GGTGGACCACCGTGGGGGACATGGAGGGCTGCGGCCACTACCGTGTTGTGAAATATGAACGGATTAAGTT
CCTGGTCATTGCCCTGAAGAACTCCGTGGAGGTTTATGCCTGGGCTCCCAAACCCTACCACAAATTCATG
GCCTTCAAGTCCTTTGCTGACCTCCCTCACCGCCCTCTACTGGTGGACCTGACAGTAGAGGAGGGACAGC
GGCTCAAGGTCATCTATGGCTCCAGTGCTGGCTTCCATGCTGTGGATGTTGATTCTGGGAACAGCTATGA
CATCTACATCCCTGTACATATCCAGAGCCAGATCACACCCCACGCCATCATCTTCCTCCCCAACACTGAT
GGCATGGAGATGCTGCTGTGCTATGAAGATGAGGGTGTCTATGTCAACACTTACGGGCGGATCATCAAGG
ATGTGGTGCTGCAGTGGGGAGAGATGCCCACCTCTGTGGCCTACATCTGCTCCAACCAGATAATGGGCTG
GGGTGAGAAGGCCATAGAGATCCGCTCTGTGGAGACAGGCCACCTAGATGGGGTCTTCATGCACAAACGA
GCCCAGAGGCTCAAGTTCCTGTGTGAGCGCAATGACAAGGTGTTTTTTGCCTCTGTCCGCTCTGGAGGAA
GCAGCCAAGTTTACTTTATGACTCTGAACCGTAACTGCATCATGAACTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_016713

Insert Size: 3903 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_016713.2, NP_057922.2

RefSeq Size: 4862 bp

RefSeq ORF: 3903 bp

Locus ID: 50932

UniProt ID: Q9JM52

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]