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Product datasheet for MC224200

Mink1 (NM_176893) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mink1 (NM_176893) 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:	>MC224200 representing NM_176893 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 ACAGCTGCAGCAGGAGCACGCCTACCTCAAGTCCCTGCAGCAGCAGCAGCAGCAGCAGCAGCTCCAGAAG CAGCAGCAGCAGCAGCAGATCCTGCCTGGAGACAGGAAGCCCCTGTATCATTACGGTCGGGGCATTA

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ATCCTGCTGACAAGCCAGCATGGGCCCGCGAGGTGGAAGAGAGAGCACGGATGAACAAGCAGCAGAACTC
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GATGGGGTCTTCATGCACAAACGAGCCCAGAGGCTCAAGTTCCTGTGTGAGCGCAATGACAAGGTGTTTT
TTGCCTCTGTCCGCTCTGGAGGAAGCAGCCAAGTTTACTTTATGACTCTGAACCGTAACTGCATCATGAA
CTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_176893

Insert Size: 3927 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_176893.2, NP_795712.2

RefSeq Size: 4886 bp

RefSeq ORF: 3927 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]