

Product datasheet for MR223515

Mink1 (NM_176893) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mink1 (NM_176893) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mink1
Synonyms:	B55; Map4k6; MINK; Ysk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR223515 representing NM_176893 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCGACCCAGCCCCGCCGAGCCTGGACGACATCGACCTGTCTGCCCTGCGGGACCCTGCAGGAA
TCTTTGAGCTGGTGGAGGTGGTTGGCAATGGAACCTATGGACAGGTATACAAGGGCGGCACGTCAGAC
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CTCCTGGGAACGATGACCAGCTCTGGCTGGTGGTGGATGAGGTTCTGCGGTGCTGGTTCAGTGACCGACCTGGT
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TTTCATTGGAACCCATACTGGATGGCTCCAGAAGTCAATGCCTGTGACGAGAACCCCGATGCCACCTAT
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GTGACATGCACCCTATGCGGGCCCTTCCCTCATCCCTCGAACCCCTCCCCCAGGCTCAAGTCAAAGAA
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ATCCTGCTGACAAGCCAGCATGGGCCCGGAGGTGGAAGAGAGAGCACGGATGAACAAGCAGCAGAACTC
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CTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR223515 representing NM_176893
 Red=Cloning site Green=Tags(s)

MGDPAPARSLDDIDL SALRDPAGIFELVEVVNGTYGQVYKGRHVKTGQLAAIKVMDVTEDEEEEIKQEI
 NMLKKYSHHRNIATYYGAFIKKSPGNDQLWL VMEFCGAGSVTDLVKNTKGNALKEDCIAYICREILRG
 LAHLHAHKVIHRDIKQNVLL TENAEVKLVDFGVSAQLDRTVGRNRTF IGTPYWMAPEVIACDENPDATY
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 KRAIGEDFVLLKERTLDEAPKPKKAMDYSSSSEEVESSEEEEEEGDGEPSEGSRDTPGGRSDGDTDSVS
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 SDYQSRGLVKAPGKSSFTMFVDLGIYQPGGSGDTIPITLVGGEGRLDQLQFDVRKGSVVNVPNTNTRA
 HSETPEIRKYKRFNSEILCAALWGVNLLVGTENGLMLLDRSGQKQVYGLIGRRRFQOMDVLEGLNLLIT
 ISGKRNLRVYYLSWLRNKILHNDPEVEKKQGWTTVGDMEGCGHYRVVYERIKFLVIALKNSVEVYAWA
 PKPYHKFMAKFSADLPHRPLLVDLTVEEGQRLKVIYGSAGFHAVDSDSNGSYDIYIPVHIQSQITPHA
 IIFLPNTDGMEMLLCYEDEGVYVNTYGRIIKDVVLQWEMPTSVAYICSNQIMGWGEKAIEIRSVETGHL
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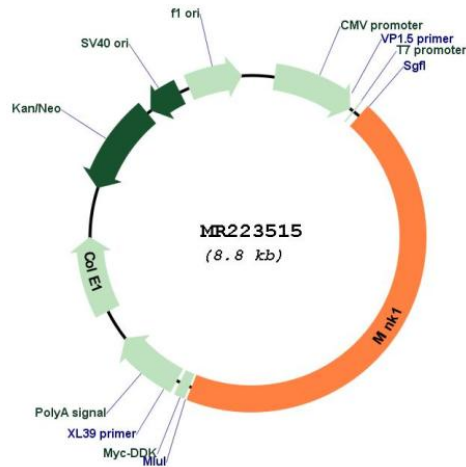
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_176893

ORF Size: 3924 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:

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: [Q9JMS2](#)

Cytogenetics: 11 B3

MW: 147.7 kDa

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]