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Product datasheet for MC202404

Mapre1 (NM_007896) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapre1 (NM_007896) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapre1
Synonyms:	5530600P05Rik; AI462499; AI504412; AW260097; BIM1p; D2Ertd459e; Eb1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC064444 sequence for NM_007896
GGAGCCGGGCGCGCGGACGGCGGACGCGGGTCCTGAGAAAGCCGAAGATGGCAGTGAATGTGTACTCTAC
GTCAGTCACCAGTGATAACCTAAGTCGACATGACATGCTGGCTTGGATCAATGAATCTCTGCAGTTGAAT
CTGACAAAGATAGAACAGTTGTGTTCAGGGGCTGCATATTGTCAGTTTATGGACATGCTCTTCCCTGGAT
CCATTGCCTTGAAGAAAGTGAAATTCCAAGCTAAGCTAGAACATGAATATATCCAGAACTTCAAAATACT
ACAAGCAGGCTTCAAGAGGATGGGCGTTGACAAAATAATTCCTGTGGATAAATTAGTAAAAGGAAAATTT
CAGGACAATTTTGAATTTGTTCAATGGTTCAAGAAGTTTTTTGATGCAAATTATGATGGAAAAGAGTATG
ATCCTGTAGCTGCCAGACAAGGTCAAGAAACTGCAGTGGCTCCTTCTCTTGTCGCCCCAGCTTTGAGTAA
ACCGAAGAAACCTCTCGGCTCCAGTACTGCAGCCCCACAGAGACCCATTGCAACACAGAGGACTACTGCA
GCTCCTAAGGCTGGCCCCGGAATGGTGCGAAAGAATCCTGGTGTGGGCAATGGAGATGATGAAGCAGCTG
AATTGATGCAGCAGGTCAAAGTACTGAAGCTTACTGTTGAAGACTTGGAGAAGGAGAGAGACTTCTACTT
CGGAAAGCTAAGGAACATTGAACTGATTTGCCAGGAGAACGAGGGGGAAAACGACCCTGTACTGCAGAGG
ATTGTAGATATTCTTTATGCCACAGATGAAGGCTTTGTGATACCTGATGAAGGGGGCCCACAGGAGGAAC
AAGAAGAGTATTAAGCAGCCTGGACCAGCAGAGCAACATCCGAAGTCTTCACTCCAAATCATGTGCTTAA
CTGTTAATACTCCCTTTTATTAATCTTAGAGGATTCACTGGTTTCTTTTCATAAGCAAAAAGTACCTCTT
CTTCAAAGTGCACTTTGCAGAAGTCTCACCTTTTCCGATGAGTTTGAGTTAGGAGCTTTTGCCTTGTAGC
AGAGCAGTATTAACATCTAGTTGGTTTACCAGGGGAACAAGAGGCCAACCATGGGGCTCTTCATGTGGAT
GCTGGTCACACTGACTGATGGAGAAGGGGGTTTATAATACGAGAGGTGACAACCTCAGAAATGCAAAGAC
TGAATTGAATTCTAAGCTAATGTGAAATTCTGGCAGAGAACGTTTTAATAAATAAATGCCTTAAGAGTAT
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GTGCCTGAGGCGAAGAGCTCAGCTTCCCATCGAGCAGTCCTCTGGATCTTTTCAAACTCTCCCTCCAGTT
CCTCTGTATTGTGTTTCTGGGACCTGCCCACGTCTCTGGGATTTGAATGGGGGTGGAGTCCCAGCACACT
GTCTTTTAAGTTTACAGTTACACTTCTCTCTCTGCTCCCTGTGACCTCTGGAAACTCCTCTGGCTCCTTA
AGTTTGCTGCTGAGCATTGTAATTACAGCAGGCAGGTGATCGTGCTGCAAGTTCTTGCTGGACCTCTGGC
AAAGGAGTGATCAGTGAAGGCCAGTGTCACCTGTGCTCTGTGAGGCTAGGGTGCTCGCTGTCTGCTGGTC
ACTGCTCCCCATTGTCACCTGAGTACTTTGCCAGTGCACTAATCTCTTGGAGATAAAATTCTCTAGTGTG
TTACTAAATGTTAAAATGTTTTTTTTTAAAGAATATACAGTACCGTGACTGAAATATTAATATTTAAAAT
ACTTCATTCCTTAATTCTCCCTCAATTGCTTTACCCATAGCCTATTCAATTCCTTTGTTTGGCGAACTCT
GCAAAATGTGTTACCCACTACTGAGATTGTTCAGCCCCTGATGTGTTTGAATGGGGGTGGAGTCCCAGCA
CACTGTCTTTTAAGTTTACAGTTACACTTCTCTCTCTGCTCCCTGTGACCTCTGGAAACTCCTCTGGCTC
CTTAAGTTTGCTGCTGAGCATTGTAATTACAGCAGGCAGGTGATCGTGCTGCAAGTTCTTGCTGGACCTC
TGGCAAAGGAGTGATCAGTGAAGGCCAGTGTCACCTGTGCTCTGTGAGGCTAGGGTGCTCGCTGTCTGCT
GGTCACTGCTCCCCATTGTCACCTGAGTACTTTGCCAGTGCACTAATCTCTTGGAGATAAAATTCTCTAG
TGTGTTACTAAATGTTAAAATGTTTTTTTTTAAAGAATATACAGTACCGTGACTGAAATATTAATATTTA
AAATACTTCATTCCTTAATTCTCCCTCAATTGCTTTACCCATAGCCTATTCAATTCCTTTGTTTGGCGAA
CTCTGCAAAATGTGTTACCCACTACTGAGATTGTTCAGCCCCTGATGTGTTTGTACTGATTTGTTTCTGG
TGGTAGCTTGTCTTATGCTGTGTGTAGGAAACAGGTATTTTATGACAGAATGTTATGTAGTGCATGCTCT
GTGGAATTCAGAGGAAAATCCAGGCTCAGTGATTAACAATGCCAAAAAAAGAAAAAAAAAAAAACAAACA
AAAAGCAAGTAACGAGCCATTGTTCAAACGACAGCGGTGCTGTTTCTCCTCTGTGGCCTTTCAGACTTCT
GTTGCCCCCAAATTCCATTTTATTGGGAACCCATTTTCCACCTGGTCTTTCTTGACAGGGTTTTTTTCTA
CTTTAAACAGTTTTTAAATAAAATTCTGTATTTCAAGAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_007896

Insert Size: 807 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:	BC064444, AAH64444
RefSeq Size:	3080 bp
RefSeq ORF:	807 bp
Locus ID:	13589
UniProt ID:	Q61166
Cytogenetics:	2 75.95 cM
Gene Summary:	Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes cytoplasmic microtubule nucleation and elongation. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement. Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules. Acts as a regulator of autophagosome transport via interaction with CAMSAP2 (By similarity). May play a role in cell migration (PubMed:15311282).[UniProtKB/Swiss-Prot Function]