

Product datasheet for MR203471

Mip (NM_008600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mip (NM_008600) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mip
Synonyms:	Aqp0; Cat; Cts; Hfi; Lop; MIP26; MP26; shrivelled; Svl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203471 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGAACTTCGGTCTGCCTCCTTTGGAGGGCCATATTTGCTGAGTTCTTTGCCACCCTCTTCTATG
TCTTCTTTGGGCTTGGAGCCTCGCTACGTTGGGCCCTGGGCCCTACATGTCTTGCAAGTGCTTTGGC
CTTTGGCCTGGCCTTGGCTACATTGGTGCAGACTGTGGGTCACATCAGTGGAGCCCATGTCAACCCTGCC
ATCACTTTTGCCTCCTTGTGGGCTCCCAGATGCCTTGTCCGGGCTTCTGCTATATAGCAGCCAGC
TTCTGGGAGCTGTGGCTGGGGCGGCTGTGCTGTACAGTGTCACCCACCAGCTGTCCGAGGAAACCTAGC
GCTCAACACGCTGCATGCTGGGGTGGGCGTGGGCCAGGCCACCACTGTGGAGATCTTCTTGACGCTCCAG
TTCGTGCTCTGCATCTTTGCTACATACGACGAGAGGCGGAATGGCCGCATGGGCTCTGTAGCCCTGGCTG
TTGGCTTCTCCCTCACCTGGGGCACCTCTTTGGGATGTATTACACTGGTGCAGGGATGAACCCAGCCCG
CTCCTTTGCTCCTGCCATCCTCACCCGGAATTCAGCAACCACTGGGTGTACTGGTGGGCCCGATCATC
GGAGGGGGCCTGGGCAGCCTACTCTATGACTTTCTCCTTCCCCGGCTCAAGAGTGTTTCTGAGAGAC
TGCTATCCTGAAGGGAGCCAGACCCAGTGACTCCAATGGACAGCCAGAGGGTACAGGGGAACTGTCTGA
ACTGAAGACTCAGGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203471 protein sequence
Red=Cloning site Green=Tags(s)

MWELRSASFWRAIFAEFFATLFYVFFGLGASLRWAPGPLHVLQVALAFGLALATLVQTVGHISGAHVNPA
 ITFAFLVGSQMSLLRAFICYIAAQLLGAVAGAALYSVTPPAVRGNLALNTLHAGVSVGQATTVEIFLTLQ
 FVLCIFATYDERRNGRMGSVALAVGFSLTLGHLFGMYTGA MNPARSFAPAILTRNFSNHVVYVWGPII
 GGGLGSLLYDFLLFPRLKSVSERLSILKGARPSDSNGQPEGTGEPVELKTQAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008600

ORF Size: 792 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_008600.1](#), [NM_008600.2](#), [NM_008600.3](#), [NM_008600.4](#), [NM_008600.5](#), [NP_032626.2](#)

RefSeq Size: 2143 bp

RefSeq ORF: 792 bp

Locus ID: 17339

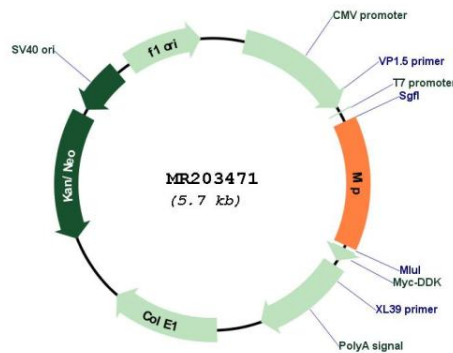
UniProt ID: [P51180](#)

Cytogenetics: 10 76.49 cM

MW: 28.2 kDa

Gene Summary: Water channel. Channel activity is down-regulated by CALM when cytoplasmic Ca(2+) levels are increased. May be responsible for regulating the osmolarity of the lens. Interactions between homotetramers from adjoining membranes may stabilize cell junctions in the eye lens core.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203471