

Product datasheet for **RR202543**

Mip (NM_001105719) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mip (NM_001105719) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Mip
 Synonyms: Aqp0
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR202543 representing NM_001105719
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGAACTTCGGTCTGCCTCCTTTGGAGGGCCATATTTGCTGAGTTCCTTGCTACCTCTTCTATG
 TCTTCTTTGGGCTGGGATCCTCACTGCGTTGGGCCCTGGACCCCTACATGTCTGCAAGTGGCTTTGGC
 CTTTGGCCTGGCCCTGGCCACACTGGTGCAGACTGTGGGTCACATCAGTGGAGCCATGTCAACCCTGCG
 GCACTTTTGCCTTCCTTGTGGGCTCCCAGATGTCCTTGCTCCGTGCTTTCTGCTATATAGCAGCCAGC
 TTCTGGGAGCTGTGGCTGGAGCGGCTGTGCTGTACAGTGTCAACCCACCAGCTGTCCGAGGAAACCTAGC
 ACTCAACACGCTGCATGCTGGGGTAAGCGTGGGCCAGGCCACCACTGTGGAGATCTTCTGACGCTCCAG
 TTCGTGCTCTGCATCTTTGCTACGTATGACGAGAGGGCGGAATGGCCGATGGGCTCTGTGGCCCTGGCTG
 TTGGCTTCTCCCTCACCTGGGGCACCTTTGGGATGTATTACACTGGCGGGGATGAATCCCGCCC
 CTCCTTTGCTCCTGCTATCCTCACCAGAACTTCAGCAACCACCTGGGTGTACTGGTGGGCCCAATCATC
 GGCGGGGGCTGGGCAGCCTGCTCTACGACTTTCTCCTTCCCACGGCTCAAGAGTGTTCTGAGAGAC
 TGTCTATCCTCAAGGGAGCCAGACCCAGTGACTCCAATGGACAGCCAGAGGGTACAGGGGAACCTGTGGA
 ACTGAAGACTCAGGCCCTGACTGAAGACTCAGGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202543 representing NM_001105719
Red=Cloning site Green=Tags(s)

MWELRSASFWRAIFAEFFATLFYVFFGLGSSLRWAPGPLHVLQVALAFGLALATLVQTVGHISGAHVNPA
 VTF AFLVGSQMSLLRAF CYIAAQLL GAVAGA AVL SVTPPAVRGNLALNTLHAGVSVGQATTVEIFLTLQ
 FVLCIFATYDERRNGRMGSVALAVGFSLTLGHLFGMYT GAGMNPARSFAPAILTRNF SNHWVYVWGPII
 GGGLGSLLYDFLLFPRLKSVSERLSILKGARPSDSNGQPEGTGEPVELKTQALTEDSGP

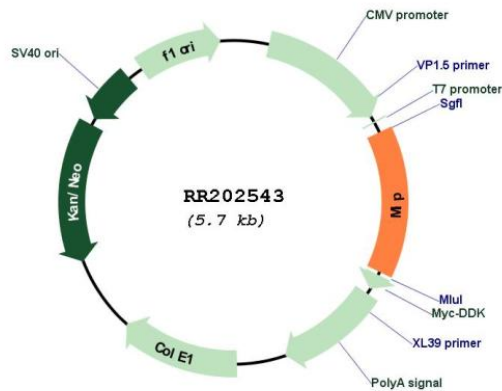
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001105719
ORF Size: 789 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:	<ol style="list-style-type: none">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 Size:	2431 bp
RefSeq ORF:	792 bp
Locus ID:	25480
Cytogenetics:	7q11
MW:	28.2 kDa
Gene Summary:	human homolog is a member of the aquaporin family of water transporters [RGD, Feb 2006]