

Product datasheet for **MR206729**

Mpi1 (BC009068) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpi1 (BC009068) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpi1
Synonyms:	1110002E17Rik; AI315153; Mpi-1; Mpi1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR206729 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCGGGTCCGCGAGTGTCCCACTTTCTGTGTGGTGCAGCAGTATGCCTGGGGGAAGGTGGGCTCCA
 AAAGTGAAGTGGCATGCCTGCTGGCTAGCAGTGATCCACTGGCCAGATTTCAGAGGACAAGCCATATGC
 AGAGCTGTGGATGGGACACACCCCGGGAGATGCCAAGATCCTTGACAACCGTATTTCCAGAAGACC
 TTAGGCCAGTGGATTGCTGAAAACCCGGACTGCTTGGGCTCAAAGGTCAAAAACACCTTTAATGGAAGC
 TGCCCTTTCTCTCAAAGTACTGTCACTGGACACGGCCCTGTCTATCCAGGCACACCCTAACAAGGAGCT
 GGCAGAGAAGCTGCATCTCCAGGCTCCAGAGCACTACCCTGATGCCAACCACAAGCCAGAAATGGCCATT
 GCCCTTACCTCCTCCAGGGCTTGTGTGGTTTCCGGCCAGTGGAGGAGATTGTGACCTTTATGAAGAAGG
 TGCTGAGTTCAGTTGCTGATTGGAGATGATGCCACAGCACAGCTAAAGGAGAGCGTGGTGGGGATAC
 TGAGGCCATGGCTTCTGCTCTGAGGAAGTCTTTTCCACCTGATGAAGAGTGAGAAGAAGTGGTGGTG
 GAGCAGCTTAACCTGTTGGTGAAACGGATCTCCAGCAAGTATTTGACGGAACAATATGGAGGACATTT
 ATGGGAAGCTCTTGCTGCAGCTGCACCAACAGCACCCAGGTGATATCGGATGTTTCGCCATCTACTTCT
 GAACCTGCTCACCTTGAAGCCTGGGGAAGCCATGTTTCTGGATGCCAACGTGCCCCATGCCTACCTGAAG
 GGAGACTGCGTGGAAATGCATGGCATGTTCCGACAATACCGTGCCTGCTGGCCTGACACCCAAATTCATTG
 ATGTGCCAACCTGTGTGAAATGCTCAACTACACACCTAGCCCCAGCAACGACAGGCTGTTTGCCCCAGC
 ACAGAGTCAAGATGACCCTATCTCTATCTATGATCCTCTGTGCCAGACTTCACTGTTATGAAGATG
 GAGGTCCCTAGCTCTGTCACTGAATACAAAGTCTCAACACTAGACTCTGCCAGCATCCTTCTGGTGGTCC
 AAGGGACAGTGACAGCTATCATACCTTCAGCCCATGCAGAAATCCCTCTGTACCGTGGTGGAGTGCTCTT
 CATTGACGCCAATGAGAGTGCTTACTGAAGATTACTGTGCCCAAGGATCTGCTGATATCCGGGCGCTGC
 TGCTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206729 protein sequence
 Red=Cloning site Green=Tags(s)

MAGPRVFPLSCVVQYAWGKVGSKSEVACLLASSDPLAQISEDKPYAELWMGTHPRGDAKILDNRISQKT
 LGQWIAENPDCLGSKVKNTFNGKLPFLFKVLSDTALSIQAHPNKELAEKLHLQAPEHYPDANHKPEMAI
 ALTSFQGLCGFRPVVEIVTFMKKVPEFQLLIGDDATAQLKESVGGDTEAMASALRNCFSHLMKSEKKVVV
 EQLNLLVKRISQQVFDGNNMEDIYGKLLQLHQHPGDIGCFIYFLNLLTLKPGEAMFLDANVPHAYLK
 GDCVECMACSDNTVRAGLTPKFIDVPTLCEMLNYTPSPSNDRLFAPAQSQDDPYLSIYDPPVPDFTVMKM
 EVPSSVTEYKVSTLDSASILLVQGTVTAIIPSAHAEIPLYRGGVLFIAANESVLLKITVPKDLLIFRAC
 CLL

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC009068

ORF Size: 1269 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC009068](#), [AAH09068](#)

RefSeq Size: 1424 bp

RefSeq ORF: 1271 bp

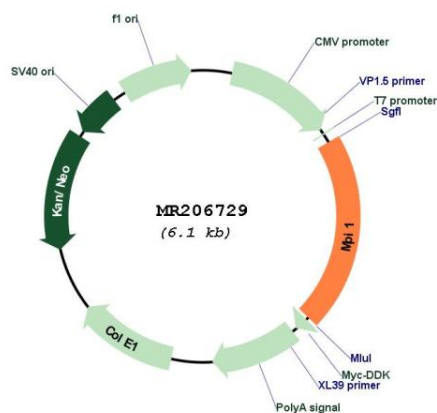
Locus ID: 110119

Cytogenetics: 9 31.05 cM

MW: 46.5 kDa

Gene Summary: Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206729