

Product datasheet for MR206725

Mpi (NM_025837) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpi (NM_025837) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpi
Synonyms:	1110002E17Rik; AI315153; Mpi-1; Mpi1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR206725 representing NM_025837 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGAGTCCGCGAGTGTCCCACTTTCCTGTGTGGTGCAGCAGTATGCCTGGGGGAAGGTGGGCTCCA
AAAGTGAAGTGGCATGCCTGCTGGCTAGCAGTGATCCACTGGCCAGATTTAGAGGACAAGCCATATGC
AGAGCTGTGGATGGGACACACCCCGGGGAGATGCCAAGATCCTTGACAACCGTATTTCCAGAAGACC
TTAGGCCAGTGGATTGCTGAAAACCCGGACTGCTTGGGCTCAAAGGTCAAAAACACCTTTAATGAAAGC
TGCCCTTCTCTTCAAAGTACTGTCAAGTGGACACGGCCCTGTCTATCCAGGCACACCCCTAAACAAGGAGCT
GGCAGAGAAGCTGCATCTCCAGGCTCCAGAGCACTACCCTGATGCCAACCACAAGCCAGAAATGGCCATT
GCCCTTACCTCCTTCCAGGGCTTGTGTGGTTTCCGGCCAGTGGAGGAGATTGTGACCTTTATGAAGAAGG
TGCCTGAGTTCAGTTGCTGATTGGAGATGATGCCACAGCACAGCTGAAGGAGAGCGTGGGTGGGATAC
TGAGGCCATGGCTTCTGCTCTGAGGAAGTCTTTCCACCTGATGAAGAGTGAGAAGAAGGTGGTGGTG
GAGCAGCTTAACCTGTTGGTAAACGGATCTCCAGCAAGTATTTGACGGAAACAATATGGAGGACATTT
ATGGGAAGCTCTTGTGCAGCTGCACCAACAGCACCCAGGTGATATCGGATGTTTTCGCCATCTACTTCTT
GAACCTGCTCACCTTGAAGCCTGGGGAAGCCATGTTTCTGGATGCCAACGTACCCATGCCTACCTGAAG
GGAGACTGCGTGGAATGCATGGCATGTTTCGGACAATACCGTGCCTGCTGGCCTGACACCCAAATTCATTG
ATGTGCCAACCTGTGTGAAATGCTCAACTACACACCTAGCCCCAGCAACAACAGGCTGTTTGGCCACGC
ACAGAGTCAAGATGACCCCTATCTCTATCTATGATCCTCCTGTGCCAGACTTCACTGTTATGAAGATG
GAGGTCCCTAGCTCTGTCACTGAATACAAAGTCTCAACACTAGACTCTGCCAGCATCCTTCTGATGGTCC
AAGGGACAGTGACAGCTATCATACTTCAGCCCATGCAGAAATCCCTCTGTACCGTGGTGGAGTGCTCTT
CATTGCAGCCAATGAGAGTGTCTTACTGAAGATTACTGTGCCAAGGATCTGCTGATATCCGGGCTGCTG
TGCTGCTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206725 representing NM_025837
 Red=Cloning site Green=Tags(s)

MASPRVFPLSCVVQYAWGKVGSKSEVACLASSDPLAQISEDKPYAELWMGTHPRGDAKILDNRISQKT
 LGQWIAENPDCLGSKVKNTFNGKLPFLFKVLSVDTALSIQAHPNKELAEKHLQAPEHYPDANHKPEMAI
 ALTSFQGLCGFRPVVEIIVTFMKKVPEFQLLIGDDATAQLKESVGGDTEAMASALRNCFSHLMKSEKKVVV
 EQLNLLVKRISQQVFDGNNMEDIYGKLLQLHQHPGDIGCFAYFLNLLTLKPGEAMFLDANVPHAYLK
 GDCVECMACSDNTVRAGLTPKFIDVPTLCEMLNYTPSPNNRLFAPAQSQDDPYLSIYDPPVPDFVYMKM
 EVPSSVTEYKYSTLDSASILLMVQGTVTAIIPSAHAEIPLYRGGVLFIAANESVLLKITYPKDLLIFRAC
 CLL

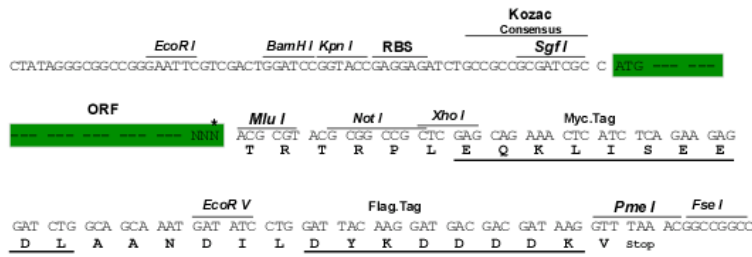
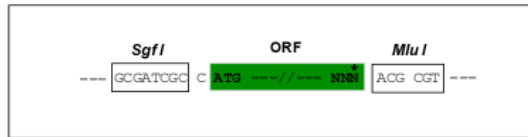
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

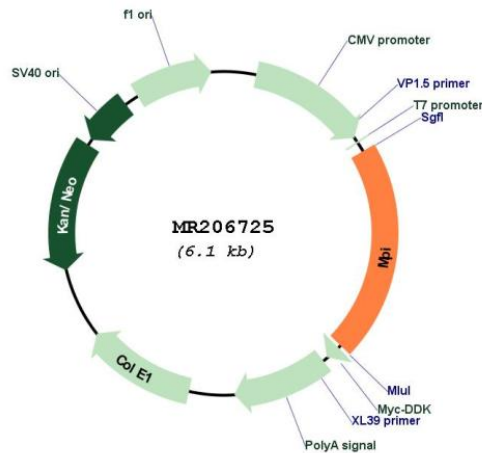
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_025837

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:	<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:	NM_025837.2 , NP_080113.1
RefSeq Size:	1757 bp
RefSeq ORF:	1272 bp
Locus ID:	110119
UniProt ID:	Q924M7
Cytogenetics:	9 31.05 cM
MW:	47 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]