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Product datasheet for MR203005

Pmm2 (NM_016881) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pmm2 (NM_016881) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pmm2
Synonyms:	AI585868; C86848
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203005 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACTCTCTGTCTCTTCGACATGGATGGGACCCTGACTGCCCCGCGGCAGAAAATTACAGAAGAAA
TGGATGGCTTTCTACAAAAATTGAGGCAGAAGACCAAAATTGGAGTGGTAGGTGGGTCAGATTTTGAGAA
ACTGCAAGAGCAACTGGGAAATGATGTGGTTGAGAAATACGATTATGTGTTTCCAGAGAATGGCTTGGTA
GCGTACAAAGATGGGAAGCTATTGTGTAAGCAGAATATTCAAGGGCATCTGGGGGAGGATGTGATCCAAG
ACCTGATCAACTACTGTCTGAGCTACATTGCAAACATTAAACTCCCTAAGAAAAGGGGAACTTTCATTGA
ATTCCGAAATGGCATGTTGAATGTGTCCCCAATTGGAAGAAGCTGCAGCCAAGAAGAACGAATTGAATTC
TACGAACTCGATAAAAAAGAACATATACGACAAAAGTTCGTAGCAGACCTGCGGAAGGAGTTTGCAGGGA
AAGGCCTCACGTTCTCCATAGGTGGCCAAATCAGCATTGACGTCTTTCCTGAAGGATGGGATAAGCGGTA
TTGCCTGAGACACCTGGAACATGCTGGCTATAAGACCATTTATTTCTTTGGAGACAAGACTATGCCGGGT
GGCAATGACCATGAGATCTTCACAGACCCCAGAACTGTGGGCTACACAGTGACGGCCCCCGAAGACACAC
GCAGGATCTGTGAGGGGCTCTTCCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

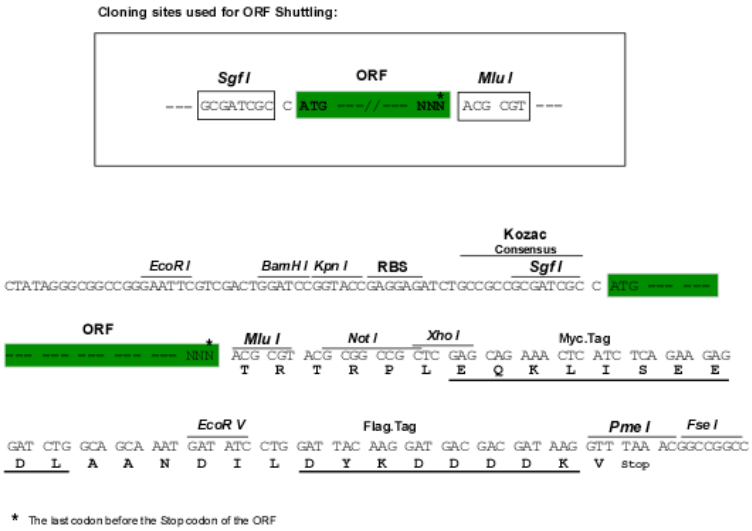
>MR203005 protein sequence
Red=Cloning site Green=Tags(s)

MATLCLFDMDGTLTAPRQKITEEMDGFLQKLRQKTKIGVVGGSDFEKLQEQLGNDVVEKYDYVFPENGLV
AYKDGKLLCKQNIQGHLGEDVIQDLINYCLSYIANIKLPKKRGTFIEFRNGMLNVSPIGRSCSQEERIEF
YELDKKEHIRQKFVADLRKEFAGKGLTFSIGGQISIDVFPEGWDKRYCLRHLEHAGYKTIYFFGDKTMPG
GNDHEIFTDPRTVGYTVTAPEDTRRICEGLFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016881

ORF Size: 729 bp

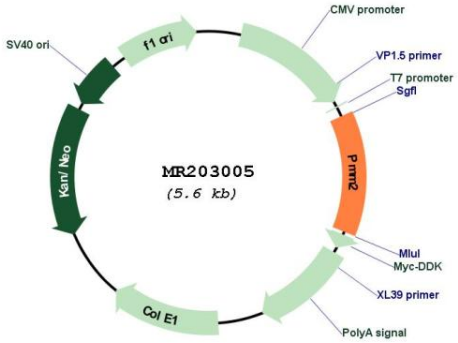
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_016881.3
RefSeq Size:	1802 bp
RefSeq ORF:	729 bp
Locus ID:	54128
UniProt ID:	Q9Z2M7
Cytogenetics:	16 A1
MW:	27.7 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 MR203005