

Product datasheet for **MR228491**

Pmm1 (NM_001282041) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pmm1 (NM_001282041) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pmm1
Synonyms: C77612
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228491 representing NM_001282041
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGGCCACTGCTCCTCCCGTGCTGCGCAGCTGGCCCCGCCCGCCCGCCCGCCCTCTGTGCGACGCG
ACCCTGGCGGTGGCTGCAGCGACAGCGCTTGGCGCGGGAGCTACAGCCATGGCAGTCGCGTCGAGGGC
GCCCGCAGGAAAGAGCGCATCCTCTGCCTGTTTACGTGGACGGGACCCTCACGCCAGCTCGCCAGAAAA
TTGACCCTGAGGTATCGGCCTTCTGCAGAAGCTACGAAGCAGGCTGCACCCTGGAGGAGAGGATCGAGT
TCTCGGAAGTGGACAAGAAGGAGAAGATCCGGGAGAAGTTTGTGGAAGCCTTGAAGACAGAGTTTGTCTGG
CAAGGGGCTGCGGTTCTCCCGAGGAGGCATGATAAGCTTCGATGTCTTCCCGAGGGCTGGGATAAGCGC
TACTGCCTGGACAGCCTGGATGAAGACAGCTTTGACATCATCCACTTCTTTGAAATGAGACCAGTCCTG
GCGGGAATGACTTTGAGATCTATGCGGACCCCGGACTGTCCGCCATAGCGTGGTCTCCCCTCAGGACAC
TGTACAGCGATGCCGTGAGCTCTTCTCCAGAGACAGCCACGAGGCG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >MR228491 representing NM_001282041
Red=Cloning site Green=Tags(s)

MATAPPRAAQLAPRRPRPASVARDPGGGSDSAWRAELQPWQSPSRAPAGKSASSACL TWTGPSRQLARK
LTLRYRPSGRSYEAGCTLEERIEF SELDKKEKIREKFVEALKTEFAGKGLRF SRGMI SFDVPEGWDKR
YCLDSLDEDSFDIIHFFGNETSPGGNDFEYADPRTVGHSVVSPQDTVQRCRELF FPEAHEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

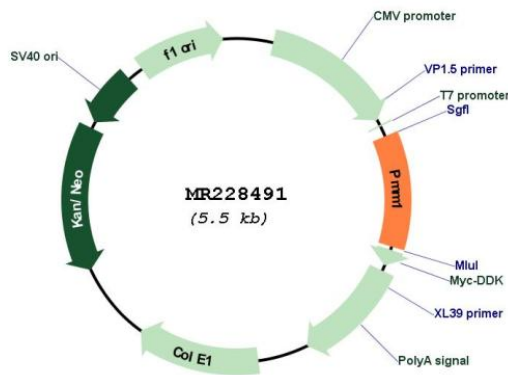
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001282041

ORF Size: 609 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_001282041.1](#), [NP_001268970.1](#)

RefSeq Size: 1020 bp

RefSeq ORF: 612 bp

Locus ID: 29858

Cytogenetics: 15 E1

MW: 23.1 kDa

Gene Summary: Involved in the synthesis of the GDP-mannose and dolichol-phosphate-mannose required for a number of critical mannosyl transfer reactions. In addition, may be responsible for the degradation of glucose-1,6-bisphosphate in ischemic brain.[UniProtKB/Swiss-Prot Function]