

Product datasheet for **MR203382**

Dpm1 (NM_010072) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dpm1 (NM_010072) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dpm1
Synonyms: AI118379; AI194292
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203382 representing NM_010072
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCACGGGGCGAGTCGCAGTCTTGCTGCGTCTCCGCGGCCGCCGAGGGCCGCTCCTCGCGAC
AGGACAAGTACTCGGTGCTGTTGCCACCTACAACGAACGGGAGAACCTGCCGCTCATCGTGTGGCTGCT
GGTGAAGAGCTTCTCCGAGAGTGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCAGACGGG
ACAAGAGAAGTTGCTGAACAACGGCAGAGATCTATGGGCCGACAGAATTCCTAAGACCACGAGAGA
AAAAGCTGGGTCTCGGAACGCTACATTCATGGAATCAAACACGCCACGGGAACTATGTGATCATCAT
GGATGCTGACCTCTCCACCATCCAAATTTATTCCTGAATTTATCAGGAAACAAAAGGAGGGTAATTTT
GATATTGCTCTGGAACGATACAAGGGGAATGGGGTGTATGGATGGGATTGAAAAGAAAGATAA
TCAGCCGTGGGGCAATTTATAACTCAAATTCGCTGAGACCTGGAGCGTCAGACTTAACAGGAAGCTT
CAGATTATACGAAAAGAAGTTCTACAGAAATTAATAGAAAAATGTGTCTCAAAGGCTATGTCTTTCAG
ATGGAAATGATTGTTGAGCAAGACAGATGAATTACACTATTGGTGAGGTTCCAATTTCAATTTGGGATC
GAGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTCTCGTTCCTGAAAGGTTATTGACTCTCTT
TGCTACCACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR203382 representing NM_010072
 Red=Cloning site Green=Tags(s)

MASTGASRSLAASPRPPQGRSSRQDKYSVLLPTYNERENLPLIVWLLVKSFSESAINYEIIIDDGSPDG
 TREVAEQLAIEYGPDRILLRPREKKLGLGTAYIHGIKATGNYVIIMDADLSHHPKFIPEFIRKQKEGNF
 DIVSGTRYKGNNGVYVWDLKRKIIISRGANFITQILLRPGASDLTGSFRLYRKEVLQKLEKCVSKGYVVFQ
 MEMIVRARQMNYTIGEVPIISFVDRVYGESKLGNEIVSFLKGLLTLFATT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9042_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010072

ORF Size: 780 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_010072.4](#), [NP_034202.1](#)

RefSeq Size: 2293 bp

RefSeq ORF: 783 bp

Locus ID: 13480

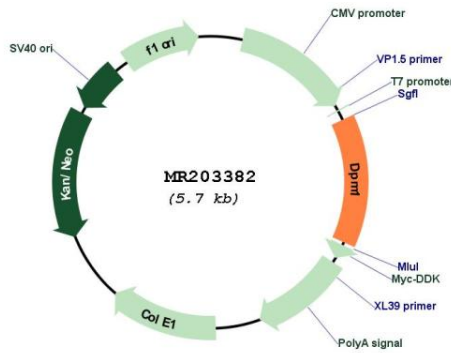
UniProt ID: [O70152](#)

Cytogenetics: 2 H3

MW: 29.6 kDa

Gene Summary: Transfers mannose from GDP-mannose to dolichol monophosphate to form dolichol phosphate mannose (Dol-P-Man) which is the mannosyl donor in pathways leading to N-glycosylation, glycosyl phosphatidylinositol membrane anchoring, and O-mannosylation of proteins; catalytic subunit of the dolichol-phosphate mannose (DPM) synthase complex. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203382