

## Product datasheet for **MG203382**

### Dpm1 (NM\_010072) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dpm1 (NM_010072) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpm1
Synonyms:	A1118379; A1194292
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203382 representing NM_010072 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTCCACGGGGCGAGTCGCAGTCTTGCTGCGTCTCCGCGGCCGCCGAGGGCCGCTCCTCGCGAC  
AGGACAAGTACTCGGTGCTGTTGCCACCTACAACGAACGGGAGAACCTGCCGCTCATCGTGTGGCTGCT  
GGTGAAGAGCTTCTCCGAGAGTGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCAGACGGG  
ACAAGAGAAGTTGCTGAACAACGGCAGAGATCTATGGGCCGACAGAATTCTCCTAAGACCACGAGAGA  
AAAAGCTGGTCTCGGAAGTGCCTACATTCATGGAATCAAACACGCCACGGGGAATATGTGATCATCAT  
GGATGCTGACCTCTCCACCATCCAAATTTATTCCTGAATTTATCAGGAAACAAAAGGAGGGTAATTTT  
GATATTGCTCTGGAAGTTCGATACAAGGGGAATGGGGTGTATGGATGGGATTGAAAAGAAAGATAA  
TCAGCCGTGGGGCCAATTTATAACTCAAATTCGCTGAGACCTGGAGCGTCAGACTTAACAGGAAGCTT  
CAGATTATACGAAAAGAAGTTCTACAGAAATTAATAGAAAAATGTGTCTCAAAGGCTATGTCTTTCAG  
ATGGAATGATTGTTGAGCAAGACAGATGAATTACACTATTGGTGAGGTTCCAATTTCAATTTGTGGATC  
GAGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTCTCGTTCCTGAAAGGTTATTGACTCTCTT  
TGCTACCACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203382 representing NM\_010072  
 Red=Cloning site Green=Tags(s)

MASTGASRSLAASPRPPQGRSSRQDKYSVLLPTYNERENLPLIVWLLVKSFSSESAINYEIIIIDDGSPDG  
 TREVAEQLAEIYGPDRILLRPREKKLGLGTAYIHGIKHATGNYVIIMDADLSHHPKFIPEFIRKQKEGNF  
 DIVSGTRYKGGVYVWDLKRKII SRGANFITQILLRPGASDLTGSFRLYRKEVLQKLEKCVSKGYVVFQ  
 MEMIVRARQMNYTIGEVPI SFVDRVYGESKLGNEIVSFLKGLLTLFATT

TRTRPLE - GFP Tag - V

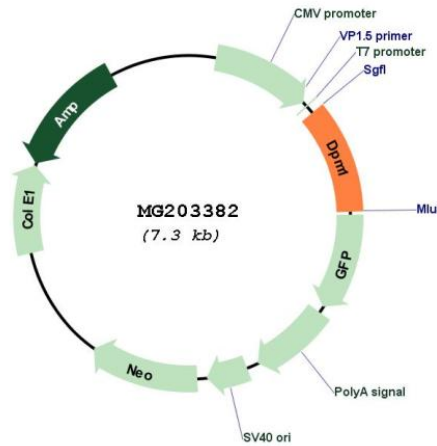
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_010072

ORF Size: 780 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_010072.4</a> , <a href="#">NP_034202.1</a>
<b>RefSeq Size:</b>	2293 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	13480
<b>UniProt ID:</b>	<a href="#">O70152</a>
<b>Cytogenetics:</b>	2 H3
<b>Gene Summary:</b>	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]