

Product datasheet for **SC127744**

DPM2 (NM_003863) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPM2 (NM_003863) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPM2
Synonyms:	CDG1U
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127744 sequence for NM_003863 edited (data generated by NextGen Sequencing) ATGGCCACGGGGACAGACCAGGTGGTGGGACTCGGCCTCGTCGCCGTTAGCCTGATCATC TTCACCTACTACACCGCCTGGGTGATTCTTGGCATTTCGACAGTCAGCATGTCATC CACAAGTATTTCTGCCCGAGCCTATGCTGTGCCATCCCACTGGCTGCAGGCTCCTG CTGCTCTGTTTGTGGGACTGTTTCATCTCCTACGTGATGCTGAAGAGCAAGAGAGTGACC AAGAAGGCTCAGTGA Clone variation with respect to NM_003863.3 213 t=>c;227 c=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003863 unedited CGTCCAGAATTTTGTAAACGAACCTACTATAGGGCGGCCGGAATTCGGCACGAGGGCG CGGGNGAAATGGCCACGGGGACAGACCAGGTGGTGGGACTCGGCCTCGTCGCCGTTAGCC TGATCATCTTCACCTACTACACCGCCTGGGTGATTCTCTTGCCATTCATCGACAGTCAGC ATGTCATCCACAAGTATTTCTGCCCGAGCCTATGCTGTCGCCATCCCAGTGGCTGCAG GCCTCCTGCTCCTGTTTGTGGGACTGTTTCATCTCCTACGTGATGCTGAAGAGCAAGA GAGTGACCAAGAAGGCTCAGTGAAGGTCCCGCAGGGATGAGGCTGCCAGCCCTTCTCTG CTTCCTCCAGCACAGGACCAAGTGGGGAGCCTGCAGAACCTGTCCAGGCACAGTGG CTCTCAAGCCTGCCTGTCTGCAGAGTCCCCATGGCATGGAGCTTACACCTGACTGACT GGAGCCCCCTCCCGACTCCCACCTTCCAGAAGCTAGGAGGGAGGGATACCTGGAAGACTC CGGTACCTCCTTCTTGCTCANGGCCTAAAAGATGCTGGTCTCCCAACCTCACTCTCAG ACTCCCTGCCACCTTTCCCTGNGTCTGCCGTCTTGCTCACTTCCCCTCCTGTCACA TGCTGACGTTGGACTTAGCANGTCTAAGGCCACATGTGTGACCTCTGACTTCTTTC CTNCCCAAAGCAGCTTTCTTACCCTGAACAGCCCCAGACCCACAAGCCTTCTGACCCT GAAAGCTGGGGAAGACTGACAGACCCAGAACAGCCCTGGGCTCAAGCAGCCACCCGGC CGCTGACGACTGGACTCTCTACGGAGCCAGCCAAACCCCAAGCTGGCCCGTGGGGAC ACTAACCATAAACCGATGTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_003863
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003863.1 , NP_003854.1
RefSeq Size:	291 bp
RefSeq ORF:	255 bp
Locus ID:	8818
UniProt ID:	O94777
Cytogenetics:	9q34.11
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways, N-Glycan biosynthesis

Gene Summary:

Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the luminal side of the endoplasmic reticulum (ER). Lack of Dol-P-Man results in defective surface expression of GPI-anchored proteins. Dol-P-Man is synthesized from GDP-mannose and dolichol-phosphate on the cytosolic side of the ER by the enzyme dolichyl-phosphate mannosyltransferase. The protein encoded by this gene is a hydrophobic protein that contains 2 predicted transmembrane domains and a putative ER localization signal near the C terminus. This protein associates with DPM1 in vivo and is required for the ER localization and stable expression of DPM1 and also enhances the binding of dolichol-phosphate to DPM1. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1).