

Product datasheet for **SC128254**

DPM1 (NM_003859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPM1 (NM_003859) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPM1
Synonyms:	CDGIE; MPDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003859 edited
ATGGCCTCCTTGGAAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCCGGGAGCTGGAAGTGCCG
AGTCCACGACAGAACAAATATTCGGTGCTTTTACCTACCTACAACGAGCGGAGAACCTG
CCGCTCATCGTGTGGCTGCTGGTAAAAAGCTTCTCCGAGAGTGAATCAACTATGAAATT
ATAATCATAGATGATGGAAGCCAGATGGAACAAGGGATGTTGCTGAACAGTTGGAGAAG
ATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGAT
CTCTCACACCATCCAAAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGTAATTTT
GATATTGTCTCTGGAAGTCTGCTACAAAGGAAATGGAGGTGATATGGCTGGGATTTGAAA
AGAAAAATAATCAGCCGTGGGGCCAATTTTTAACTCAGATCTTGCTGAGACCAGGAGCA
TCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTCTAAAGGCTACGTCTCCAGATGGAGATGATTGTTCCGGGCAAGACAGTTG
AATTATACTATTGGCGAGGTTCCAATATCATTGTGGATCGTGTTTATGGTGAATCCAAG
TTGGGAGGAAATGAAATAGTATCTTTCTTGAAGGATTATTGACTCTTTTTGCTACTACA
TAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003859 unedited NGGTTAGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGATGGCCTCC TTGGAAGTCAGTCGTAGTCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCCGAGTCCACGA CAGAACAAATATTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCTGCCGCTCATC GTGTGGCTGCTGGTGAAGCTTCTCCGAGAGTGAATCAACTATGAAATTATAATCATA GATGATGGAAGCCAGATGGAACAAGGGATGTTGCTGAACAGTTGGAGAAGATCTATGGG TCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAAGTGCATATATT CATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGATCTCTCACAC CATCCAAAATTTTATTCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTC TCTGGAAGTCTGCTACAAAGGAAATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATA ATCAGCCGTGGGCAATTTTTTAACTCAGATCTTGTGAGACCAGGAGCATCTGATTTA ACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAAAAATGTGTT TCTAAAGGCTACGCTTCCAGATGGAGATGATTGTTGGGCAAGACAGTTGAATTATACT ATTTGGCGAGTTCCAATATCATTGTTGGATCGTGTATGGTGAATCCAAGTTGGGAGGA AATGAAATAGTATCTTTCTTNGAAGGATTATTGACTCTTTTGTACTACATAAAAGAAA GATACTCATTATAGTTACGTTCAATTCAGTTAAACACTGAAGAAGCCTGGNACTGAT TTGTAN
Restriction Sites:	Please inquire
ACCN:	NM_003859
Insert Size:	1200 bp
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:	<u>NM_003859.1</u> , <u>NP_003850.1</u>
RefSeq Size:	1047 bp
RefSeq ORF:	783 bp
Locus ID:	8813
UniProt ID:	<u>O60762</u>
Cytogenetics:	20q13.13
Domains:	Glycos_transf_2
Protein Pathways:	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. Human DPM1 lacks a carboxy-terminal transmembrane domain and signal sequence and is regulated by DPM2. Mutations in this gene are associated with congenital disorder of glycosylation type 1e. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2015]

Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.