

Product datasheet for SC110478

DPM3 (NM_153741) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPM3 (NM_153741) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPM3
Synonyms:	CDG10; MDDGB15; MDDGC15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110478 sequence for NM_153741 edited (data generated by NextGen Sequencing)

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ATGACGAAATTAGCGCAGTGGCTTTGGGGACTAGCGATCCTGGGCTCCACCTGGGTGGCC
CTGACCACGGGAGCCTTGGGCCTGGAGCTGCCCTTGTCTCCTGCCAGGAAGTCTGTGGCCA
CTGCCCGCTACTTGTGGTGTCCGCCGCTGCTATGCCCTGGGCACTGTGGGCTATCGT
GTGGCCACTTTTCATGACTGCGAGGACGCCGACGCGAGCTGCAGAGCCAGATACAGGAG
GCCCGAGCCGACTTAGCCCGCAGGGGGCTGCGCTTCTGA
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Clone variation with respect to NM_153741.1

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_153741 unedited
NGTTCAAATTTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGCGGGGAAGG
GGAGACGTGGGGTAGAGTGACCATGACGAAATTAGCGCAGTGGCTTTGGGGACTAGCGAT
CCTGGGCTCCACCTGGGTGGCCCTGACCACGGGAGCCTTGGGCCTGGAGCTGCCCTTGTG
CTGCCAGGAAGTCTGTGGCCACTGCCCGCTACTTGTGGTGTCCGCCGCTGCTATGC
CCTGGGCACTGTGGGCTATCGTGTGGCCACTTTTCATGACTGCGAGGACGCCGACGCGA
GCTGCAGAGCCAGATACAGGAGGCCGAGCCGACTTAGCCCGCAGGGGGTGCCTTCTG
ACAGCCTAACCCATTCTGTGCGGACAGCCCTTCTCCCATTTCCATTAAAGAGCCAG
TTTATTTTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTCGCCTTTAAATGGGGGCCGGGTC
ATAGCTGTTTCTGAACAAACCCGGGGGGCATCCCTGTGACCCCTCCAAGGGCCTTTC
CTGGCCCTGGAAGTTGCCACTCCAGGGCCACCACCTTGTCTAATAAAATAAAGTGGC
ATCATTGTCTGACTAGGGTCTTTATATATTATGGGGTGGGGGGGGGTTTTTTTAC
CCCAAGGCCAATTTTGGAAAAAACCTGAGGGCTTGGGGGTCTTGGGAACAGCTGAAG
GCAGGGGCCAATTTTGTATGCAATTCCTCCTGCGGTCAGGGATTTTCTGCTACCTCCC
AATTGTGGGATTCAGNATGCTGACAGCTAATAATTTGTTTTTTGTAACCGGGTTTACCA
ATGGACACTTGTCCACTCTATTACAGGTATTACCTTGCCTCC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_153741 unedited AACTGGCTCTTTATGGGCAAAGGGAGGAGGGCTGTCCGCACAGNATGGGGTTAGGCTGTC AGAAGCGCAGCCCCCTGCGGGCTAAGTCGGCTCGGGCCTCCTGTATCTGGCTCTGCAGCT CGCGTGCGGCGTCTCGCAGTCATGAAAAGTGGCCACACGATAGCCCACAGTGCCCAGGG CATAGCAGCCGGCGGACACCAGCAAGTACGCGGGCAGTGGCCACAGGACTTCCTGGCAGG ACAAGGGCAGCTCCAGGCCAAAGGCTCCCGTGGTCCTTGGTACCTACATGAAAACCAAC ATGGCTACCCCCGCACGCCCTAGCCCTCCCCCTCTCGCCGCCCTTCCCTCCCTTGTC CCCGCCCCCCCCCGTTTCCCCCCTCCTTTTTTCCCCCTCCCGACCCCTTCTTTCC TTTTCTTCCCCCTTCCACCCCCGCCCCGCTTTCTTTTTGTTCCCCCCCCCCCC GCCCCCGCCGCTTGCTCCGCCCTCCCCGTGTGTCTTACCCCCCAACCCCCGCT CCCCGCTTCTTTCTTCCGTTCTCCCCACCCCTCTCCCGGCCCGCCCCCCCCCCCC CTCCCTTTTTCCCCCCTCCCCCCTCTTCTTTTTCCCCATTCTGCAACCCCTCCC TCCCTTCCAGGCCGCGCGGTGCAGCGCCCCCACTCCCTTTTTTTGTCCCCCGCACC CTCTTTCTTGCCCTCTGCTTATTCTCCTTTTCTCCCCATTCCCAACCCCACTGTTTCT CGTCCCCGCTCGCCCCCGCCCTCTGTGCGCCCCGCTCCGCCAACCGTTTGCT TCTCCGCCGTGCGCCCCCCCCCTATCTTTCCCTCGCCCCGCGCCGCTCGTCCCCT TATTCCGACCGCTCGCCGTGGCGTTGTTGAGCCGTGCGCCGCGCCAGCCACGCCCGTC CGAGCTCCGAACGTAGTCTTCGCTCCTCCGCCCTTTCGCCCTCGTTCTGTTCTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_153741
Insert Size:	460 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_153741.1</u> , <u>NP_714963.1</u>
RefSeq Size:	417 bp
RefSeq ORF:	279 bp
Locus ID:	54344
UniProt ID:	<u>Q9P2X0</u>
Cytogenetics:	1q22
Protein Families:	Transmembrane

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. The protein encoded by this gene is a subunit of dolichyl-phosphate mannosyltransferase and acts as a stabilizer subunit of the dolichyl-phosphate mannosyltransferase complex. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR and 5' coding region, compared to variant 1. This results in translation initiation from a downstream ATG and an isoform (2) with a shorter N-terminus compared to isoform 1.