

## Product datasheet for PH303919

### DPM2 (NM\_003863) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DPM2 MS Standard C13 and N15-labeled recombinant protein (NP_003854)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203919
Predicted MW:	9.3 kDa
Protein Sequence:	>RC203919 protein sequence Red=Cloning site Green=Tags(s)  MATGTDQVVGLGLVAVSLIIFTYYTAWVILLPFIDSQHVHVKYFLPRAYAVAIPLAAGLLLLLVGLFIS YVMLKSKRVTKKAQ  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003854</a>
RefSeq Size:	1561
RefSeq ORF:	252
Synonyms:	CDG1U
Locus ID:	8818
UniProt ID:	<a href="#">O94777</a>
Cytogenetics:	9q34.11



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**Summary:**

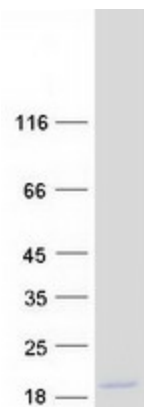
Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the luminal side of the endoplasmic reticulum (ER). Lack of Dol-P-Man results in defective surface expression of GPI-anchored proteins. Dol-P-Man is synthesized from GDP-mannose and dolichol-phosphate on the cytosolic side 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]

**Protein Families:**

Transmembrane

**Protein Pathways:**

Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways, N-Glycan biosynthesis

**Product images:**

Coomassie blue staining of purified DPM2 protein (Cat# [TP303919]). The protein was produced from HEK293T cells transfected with DPM2 cDNA clone (Cat# [RC203919]) using MegaTran 2.0 (Cat# [TT210002]).