

## Product datasheet for PH304766

### ALG2 (NM\_033087) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ALG2 MS Standard C13 and N15-labeled recombinant protein (NP_149078)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204766
Predicted MW:	47.1 kDa
Protein Sequence:	>RC204766 protein sequence Red=Cloning site Green=Tags(s)

MAEEQGRERDSVPKPSVLFHPDLGVGGAERLVDAALALQARGCSVKIWTAHYDPGHCFAESRELPVRC  
AGDWLPRGLGWGGRGAAYVVMVFLALYVFLADEEFDVVVCDQVSACIPVFLARRRKKILFYCHFP  
DLLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFTAAVFKETFKLSHIDPDVLYPSLNVTSFDS  
VVPEKLDLVPKGGKFLLLSINRYERKKNLTLALEALVQLRGLTSQDWERVHLIVAGGYDERVLENVEH  
YQELKKMQQSDLGQYVTFLRFSQKQISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPL  
ESIDHSVTGFLCEPDPVHFSEAIEKFIREPSLKATMGLAGRARVKEKFSPEAFTEQLYRYVTKLLV

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:	<u><a href="#">NP_149078</a></u>
RefSeq Size:	2834
RefSeq ORF:	1248
Synonyms:	CDG11; CDG1i; CMS14; CMSTA3; hALPG2; NET38
Locus ID:	85365



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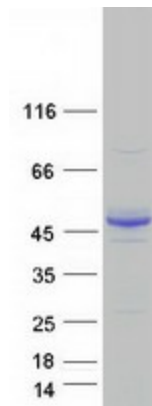
UniProt ID: [Q9H553](#), [A0A024R184](#)

Cytogenetics: 9q22.33

**Summary:** This gene encodes a member of the glycosyltransferase 1 family. The encoded protein acts as an alpha 1,3 mannosyltransferase, mannosylating Man(2)GlcNAc(2)-dolichol diphosphate and Man(1)GlcNAc(2)-dolichol diphosphate to form Man(3)GlcNAc(2)-dolichol diphosphate. Defects in this gene have been associated with congenital disorder of glycosylation type 1h (CDG-1h). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008]

**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis

### Product images:



Coomassie blue staining of purified ALG2 protein (Cat# [TP304766]). The protein was produced from HEK293T cells transfected with ALG2 cDNA clone (Cat# [RC204766]) using MegaTran 2.0 (Cat# [TT210002]).