

## Product datasheet for TP304766L

### ALG2 (NM\_033087) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog ( <i>S. cerevisiae</i> ) (ALG2), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204766 protein sequence Red=Cloning site Green=Tags(s)

MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAALALQARGCSVKIWTAHYDPGHCFAESRELPVRC  
AGDWLPRGLGWGGRGAAVCAYVRMVFLALYVFLADEEFDVWCDQVSACIPVFRRLARRRKKILFYCHFP  
DLLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFTA AVFKETFKSLSHIDPDVLYPSLNVTSFDS  
VVPEKLLDVLVPGKGFLLLSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEH  
YQELKKMVQSDLGQYVTFRLRSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPL  
ESIDHSVTGFLCEPDPVHFSEAIKFIREFSLKATMGLAGRARVKEKFSPEAFTEQLRYVTKLLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	46.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_149078</a></u>



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Locus ID: 85365

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

RefSeq Size: 2834

Cytogenetics: 9q22.33

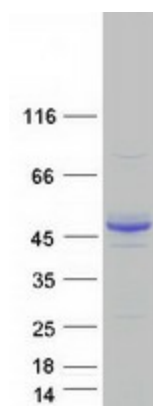
RefSeq ORF: 1248

Synonyms: CDG1I; CDGII; CMS14; CMSTA3; hALPG2; NET38

**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-Ih). 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]).