

## Product datasheet for PH303317

### ATP6J (ATP6V1G1) (NM\_004888) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V1G1 MS Standard C13 and N15-labeled recombinant protein (NP_004879)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203317
Predicted MW:	13.8 kDa
Protein Sequence:	>RC203317 protein sequence Red=Cloning site Green=Tags(s)  MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEAAALGSRGSCS TEVEKETQEKMTILQTYFRQNRDEVLDNLLAFVCDIRPEIHENYRING  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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_004879</a>
RefSeq Size:	1611
RefSeq ORF:	354
Synonyms:	ATP6G; ATP6G1; ATP6GL; ATP6J; Vma10
Locus ID:	9550
UniProt ID:	<a href="#">O75348</a> , <a href="#">A0A024R883</a>
Cytogenetics:	9q32



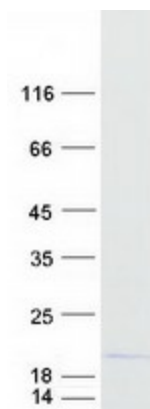
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**Summary:**

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of three V1 domain G subunit proteins. Pseudogenes of this gene have been characterized. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

**Product images:**

Coomassie blue staining of purified ATP6V1G1 protein (Cat# [TP303317]). The protein was produced from HEK293T cells transfected with ATP6V1G1 cDNA clone (Cat# [RC203317]) using MegaTran 2.0 (Cat# [TT210002]).