

## Product datasheet for PH323769

### ATP6V0A1 (NM\_005177) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V0A1 MS Standard C13 and N15-labeled recombinant protein (NP_005168)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223769
Predicted MW:	95.6 kDa
Protein Sequence:	>RC223769 representing NM_005177 Red=Cloning site Green=Tags(s)

MGELFRSEEMTLAQLFLQSEAAAYCCVSELGELGKVQFRDLNPDVNVFQRKFNVEVRRCEEMDRKLRFVEK  
EIRKANIPIMDTGENPEVPPFRDMIDLEANFEKIENELKEINTNQEALKRNFLELTELKFI LRKTQQFFD  
EMADPDLLLEESSLLEPSEMGRGTPRLRGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPV  
TGDYVHKSVFIIFFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQ  
RVLQAAAKNIRVWFIVKVRKMKAIYHTLNL CNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPS  
ILNRMQTNQTPPTYNKTNKFTYGFQNIVDAYGIGTYREINPAPYTIITFPFLFAVMFGDFGHGILMTLFA  
VWMVLRESRILSQKNENEMFSTVFSGRYIILLMGVFSMYTGLIYNDCFSKSLNIFGSSWSVRPMFTYNWT  
EETLRGNPVLQLNPALPGVFGGYPFGIDPIWNIATNKL TFLNSFKMKMSVILGIHMLFGVSLSLFNHI  
YFKKPLNIYFGF IPEIIFMTSLFGYLVILIFYKWTAYDAHT SENAPSLLIHF INMFLFSYPESGYSMLYS  
GQKGIQCFLVVVALLCVPWMLL FKPLVLRQYLRRKHLGTLNFGGIRVGNPTEEDAEIIQHDQLSTHSE  
DADEFDFGDMVMVHQAHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVIHIGLSVKSLAGGLVLF  
FFFTAFATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYSGTGFKFLPFSFEHIREGKFEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_005168</a>



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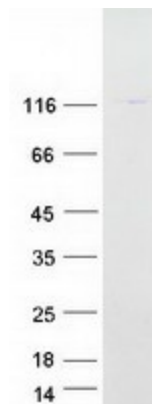
RefSeq Size:	4139
RefSeq ORF:	2493
Synonyms:	a1; ATP6N1; ATP6N1A; Stv1; Vph1; VPP1
Locus ID:	535
UniProt ID:	<a href="#">Q93050</a> , <a href="#">Q53X12</a>
Cytogenetics:	17q21.2

**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 and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c", and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This gene encodes one of three A subunit proteins and the encoded protein is associated with clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Transmembrane

**Protein Pathways:** Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

### Product images:



Coomassie blue staining of purified ATP6V0A1 protein (Cat# [TP323769]). The protein was produced from HEK293T cells transfected with ATP6V0A1 cDNA clone (Cat# [RC223769]) using MegaTran 2.0 (Cat# [TT210002]).