

## Product datasheet for **PH320723**

### ATP6V1G2 (NM\_138282) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V1G2 MS Standard C13 and N15-labeled recombinant protein (NP_612139)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220723
Predicted MW:	9 kDa
Protein Sequence:	>Peptide sequence encoded by RC220723 Blue=ORF Red=Cloning site Green=Tag(s)  MEVEQYRREREHEFQSKQQAAMGSQGNLSAEVEQATRRQVQGMQSSQQRNRERVL AQLLGMVCDVRPQV HPNYRISA TRTRPLEQKLISEEDLAANDILDYKDDDDKV  Recombinant protein using RC220723 also available, <a href="#">TP320723M</a>
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_612139</a>
RefSeq Size:	1350
RefSeq ORF:	231
Synonyms:	ATP6G; ATP6G2; NG38; VMA10
Locus ID:	534
UniProt ID:	<a href="#">O95670</a> , <a href="#">Q6NVI2</a>



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**Cytogenetics:** 6p21.33

**Summary:** This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular compartments of eukaryotic cells. V-ATPase dependent 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 encoded protein is one of three V1 domain G subunit proteins. This gene had previous gene symbols of ATP6G and ATP6G2. Alternatively spliced transcript variants encoding different isoforms have been described. Read-through transcription also exists between this gene and the downstream DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B (DDX39B) gene. [provided by RefSeq, Feb 2011]

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

### Product images:



Coomassie blue staining of purified ATP6V1G2 protein (Cat# [TP320723]). The protein was produced from HEK293T cells transfected with ATP6V1G2 cDNA clone (Cat# [RC220723]) using MegaTran 2.0 (Cat# [TT210002]).