

Product datasheet for PH315618

ATP6V0E1 (NM_003945) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V0E1 MS Standard C13 and N15-labeled recombinant protein (NP_003936)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215618
Predicted MW:	9.2 kDa
Protein Sequence:	>RC215618 representing NM_003945 Red=Cloning site Green=Tags(s) MAYHGLTVPLIVMSVFWGFVGFVLPWFIPKGPNRGVIIITMLVTCSVCCYLFWLIATLAQLNPLFGPQLKN ETIWYLYKHYHP 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- 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:	NP_003936
RefSeq Size:	894
RefSeq ORF:	243
Synonyms:	ATP6H; ATP6V0E; M9.2; Vma21; Vma21p
Locus ID:	8992
UniProt ID:	O15342
Cytogenetics:	5q35.1



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Summary:

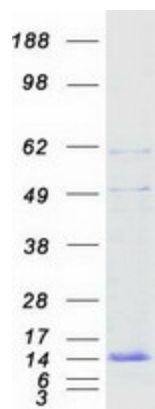
This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, 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 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 possibly part of the V0 subunit. Since two nontranscribed pseudogenes have been found in dog, it is possible that the localization to chromosome 2 for this gene by radiation hybrid mapping is representing a pseudogene. Genomic mapping puts the chromosomal location on 5q35.3. [provided by RefSeq, Jul 2008]

Protein Families:

Transmembrane

Protein Pathways:

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

Product images:

Coomassie blue staining of purified ATP6V0E1 protein (Cat# [TP315618]). The protein was produced from HEK293T cells transfected with ATP6V0E1 cDNA clone (Cat# [RC215618]) using MegaTran 2.0 (Cat# [TT210002]).