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Product datasheet for PH322686

ATP6V1G3 (NM_133326) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V1G3 MS Standard C13 and N15-labeled recombinant protein (NP_579872)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222686
Predicted MW:	6.9 kDa
Protein Sequence:	>RC222686 protein sequence Red=Cloning site Green=Tags(s) MTSQSQGIHQLLQAEKRAKDKLEEAKKILHLLFLKRRDWDCFWKRKAIEASQGGSNGRN 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:	NP_579872
RefSeq Size:	691
RefSeq ORF:	177
Synonyms:	ATP6G3; Vma10
Locus ID:	127124
UniProt ID:	Q96LB4
Cytogenetics:	1q31.3

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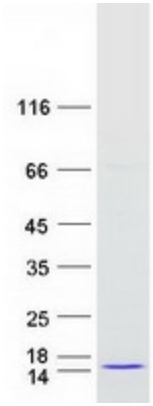
Summary: This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated 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 gene encodes one of three G subunit proteins. Transcript variants encoding different isoforms have been found for this gene. [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 ATP6V1G3 protein (Cat# [TP322686]). The protein was produced from HEK293T cells transfected with ATP6V1G3 cDNA clone (Cat# [RC222686]) using MegaTran 2.0 (Cat# [TT210002]).