

Product datasheet for PH303149

ATP6V1C1 (NM_001695) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V1C1 MS Standard C13 and N15-labeled recombinant protein (NP_001686)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203149
Predicted MW:	43.9 kDa
Protein Sequence:	>RC203149 protein sequence Red=Cloning site Green=Tags(s)
	MTEFWLISAPGEKTCQQTWEKLHAATSKNNLAVTSKFNIPDLKVGTLDVDLVGLSDELAKLDAFVEGVVK KVAQYMADVLEDSKDKVQENLLANGVDLVITYITRFQWDMAKYPIKQSLKNISEIIAKGVTQIDNDLKSR SAYNNLKGNLQNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLVVVVKLNHNNDWIKQYETLAEMVVP RSSNVLSEDDQSYLCNVTLFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKKQFGLV RWLKVNFSEAFIAWIHVKALRVFVESVLRVGLPVNFQAMLLQPNKKTLLKRLREVLHELKHLDSAAAI DAPMDIPGLNLSQQEYYPVYVYKIDCNLLEFK
	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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	<u>NP_001686</u>
RefSeq Size:	5704
RefSeq ORF:	1146
Synonyms:	ATP6C; ATP6D; VATC; Vma5
Locus ID:	528



[View online »](#)

UniProt ID: [P21283](#), [A0A024R9I0](#)

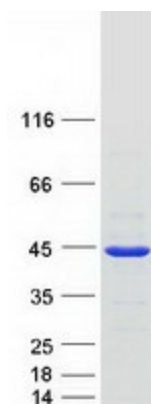
Cytogenetics: 8q22.3

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 gene is one of two genes that encode the V1 domain C subunit proteins and is found ubiquitously. This C subunit is analogous but not homologous to gamma subunit of F-ATPases. Previously, this gene was designated ATP6D. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

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

Product images:



Coomassie blue staining of purified ATP6V1C1 protein (Cat# [TP303149]). The protein was produced from HEK293T cells transfected with ATP6V1C1 cDNA clone (Cat# [RC203149]) using MegaTran 2.0 (Cat# [TT210002]).