

Product datasheet for PH301267

ATP6V1E1 (NM_001696) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP6V1E1 MS Standard C13 and N15-labeled recombinant protein (NP_001687)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201267
Predicted MW:	26.1 kDa
Protein Sequence:	>RC201267 protein sequence Red=Cloning site Green=Tags(s) MALSDADVQKQIKHMAFIEQEANEKAEEDAKAEFEFNIEKGRVQVQRLKIMEYYEKKEKQIEQQKKI QMSNLMNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQD FPLVKAAYQKAIIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMPPE VRGALFGANANRKFLD 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- 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:	NP_001687
RefSeq Size:	1406
RefSeq ORF:	678
Synonyms:	ARCL2C; ATP6E; ATP6E2; ATP6V1E; P31; Vma4
Locus ID:	529
UniProt ID:	P36543 , Q53Y06



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Cytogenetics: 22q11.21

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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. This gene encodes alternate transcriptional splice variants, encoding different V1 domain E subunit isoforms. Pseudogenes for this gene have been found in the genome. [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 ATP6V1E1 protein (Cat# [TP301267]). The protein was produced from HEK293T cells transfected with ATP6V1E1 cDNA clone (Cat# [RC201267]) using MegaTran 2.0 (Cat# [TT210002]).