

Product datasheet for PH301267

OriGene Technologies, Inc.

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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:HumanExpression Host:HEK293

Expression cDNA Clone

RC201267

or AA Sequence: Predicted MW:

26.1 kDa

Protein Sequence: >RC201267 protein sequence

Red=Cloning site Green=Tags(s)

MALSDADVQKQIKHMMAFIEQEANEKAEEIDAKAEEEFNIEKGRLVQTQRLKIMEYYEKKEKQIEQQKKI QMSNLMNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQD FPLVKAAVQKAIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPE

VRGALFGANANRKFLD

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: <u>NP 001687</u>

RefSeq Size: 1406 RefSeq ORF: 678

Synonyms: ARCL2C; ATP6E; ATP6E2; ATP6V1E; P31; Vma4

Locus ID: 529

UniProt ID: <u>P36543</u>, <u>Q53Y06</u>



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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-

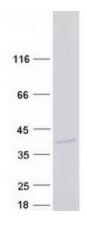
ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. This gene encodes alternate transcriptional splice variants, encoding different 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]).