

Product datasheet for TP323769

ATP6V0A1 (NM_005177) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATPase, H ⁺ transporting, lysosomal V0 subunit a1 (ATP6V0A1), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223769 representing NM_005177 Red=Cloning site Green=Tags(s)

MGELFRSEEMTLAQLFLQSEAAAYCCVSELGELGKVQFRDLNPDVNVFQRKFKVNEVRRCEEMDRKLRFVEK
EIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLELTELKFLRKTQQFFD
EMADPDLEESSLSLEPSEMGRGTPRLRGFVAGVINRERIPFERMLWRVCRGNVFLRQAEIENPLEDPV
TGDYVHKSVFIFFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQ
RVLQAAAANKIRVWFIKVRKMKAIYHTLNLCNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPS
ILNRMQTNQTPPTYNKTNKFTYGFQNIVDAYGIGTYREINPAPYTIITFPFLFAVMFGDFGHGILMTLFA
VWMVLRRESRLSQKNENEMFSTVFSGRYIILLMGVFSMYTGLIYNDCFSKSLNIFGSSWSVRPMFTYNWT
EETLRGNPVLQLNPALPGVFGGYPFGIDPIWNIATNKLTLNLSFKMKMSVILGIIHMLFGVSLSLFNHI
YFKKPLNIYFGFIPIIFMTSLFGYLIVILIFYKWTAYDAHTSENAPSLLIHFINMFLFSYPESGYSMLYS
GQKGIQCFLVWVALLCVPWMLLKFPLVLRQYLRKHLGTLNFGGIRVGNPTEEDAIIQHDQLSTHSE
DADEFDFGDTMVHQAIHTIEYCLGCSINTASYLRLWALS LAHAQLSEVLWTMVIHIGLSVKSLAGGLVLF
FFFTA FATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYSGTGFKFLPFSFEHIREGKFEE

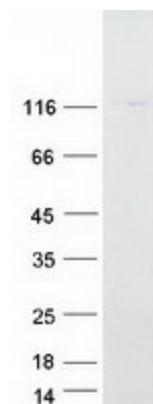
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	95.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005168
Locus ID:	535
UniProt ID:	Q93050 , Q53X12
RefSeq Size:	4139
Cytogenetics:	17q21.2
RefSeq ORF:	2493
Synonyms:	a1; ATP6N1; ATP6N1A; Stv1; Vph1; VPP1
Summary:	<p>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 A subunit proteins and the encoded protein is associated with clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>
Protein Families:	Transmembrane
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

Product images:

Coomassie blue staining of purified ATP6V0A1 protein (Cat# TP323769). The protein was produced from HEK293T cells transfected with ATP6V0A1 cDNA clone (Cat# [RC223769]) using MegaTran 2.0 (Cat# [TT210002]).