

## Product datasheet for **TP323769M**

### ATP6V0A1 (NM\_005177) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a1 (ATP6V0A1), transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223769 representing NM_005177 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGELFRSEEMTLAQLFLQSEAAAYCCVSELGELGKVQFRDLNPDVNVFQRKFKVNEVRRCEEMDRKLRFVEK  
EIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLELTELKFLRKTQQFFD  
EMADPDLEESSLSLEPSEMGRGTPRLRGLFVAGVINRERIPFERMLWRVCRGNVFLRQAEIENPLEDPV  
TGDYVHKSVFIFFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQ  
RVLQAAAKNIRVWFIKVRKMKAIYHTLNLCNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPS  
ILNRMQTNQTPPTYNKTNKFTYGFQNIVDAYGIGTYREINPAPYTIITFPFLFAVMFGDFGHGILMTLFA  
VWMVLRERILSQKNENEMFSTVFSGRYIILLMGVFSMYTGLIYNDCFSKSLNIFGSSWSVRPMFTYNWT  
EETLRGNPVLQLNPALPGVFGGYPFGIDPIWNIATNKLTLNLSFKMKMSVILGIIHMLFGVSLSLFNHI  
YFKKPLNIYFGFIPIIFMTSLFGYLVILIFYKWTAYDAHTSENAPSLLIHFINMFLFSYPESGYSMLYS  
GQKGIQCFLVWVALLCVPWMLLKFPLVLRQYLRRKHLGTLNFGGIRVGNPTEEDAIIQHDQLSTHSE  
DADEFDFGDTMVHQAIHTIEYCLGICISNTASYLRLWALS LAHAQLSEVLWMTMVIHIGLSVKSLAGGLVLF  
FFFTA FATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYSGTGFKFLPFSFEHIREGKFEE

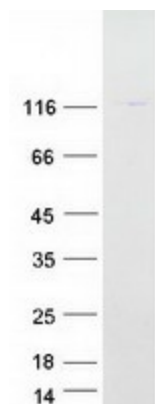
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

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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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005168</a>
<b>Locus ID:</b>	535
<b>UniProt ID:</b>	<a href="#">Q93050</a> , <a href="#">Q53X12</a>
<b>RefSeq Size:</b>	4139
<b>Cytogenetics:</b>	17q21.2
<b>RefSeq ORF:</b>	2493
<b>Synonyms:</b>	a1; ATP6N1; ATP6N1A; Stv1; Vph1; VPP1
<b>Summary:</b>	<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>
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	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]).