

## Product datasheet for TP312179M

### ATP6V0A4 (NM\_020632) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a4 (ATP6V0A4), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212179 representing NM_020632 Red=Cloning site Green=Tags(s)

MVSVFRSEEMCLSQFLQVEAAAYCCVAELGELGLVQFKDLNMNVNSFQRKRVNEVRRCESLERILRFLED  
EMQNEIVVQLLEKSPLTPLPREMITLETVLEKLEGELQEANQNQQALKQSFLELTELKYLKKTQDFFET  
ETNLADDFFTEDTSGLLELKAVPAYMTGKLGFIAGVINRERMASFERLLWRICRGNVYLKFSMDAPLED  
PVTKEEIQKNIFIIFYQGEQLRQKIKKICDGFRTVYPCPEPAVERREMLESVNVRLDLITVITQTESH  
RQRLLQEAAANWHSWLIKVQKMKAVYHILNMCNIDVTQQCVIAEIWFVADATRIKRALEQGMELSGSSM  
APIMTTVQSKTAPPTFNRTNKFTAGFQNIVDAYGVGYSREINPAPYTIITFPFLFVAMFGDCGHGTVMMLL  
AALWMILNERRLLSQKTDNEIWNTFFHGRYLILLMGIFSITYGLIYNDCFSKSLNIFGSSWSVQPMFRNG  
TWNTHVMEESLYLQLDPAIPGVYFGNYPYFGIDPIWNLASNKLTLFNSYKMKMSVILGIVQMVFGVILSL  
FNHIYFRRTLNIILQFIPEMIFILCLFGYLVFMIIKWCDFVHVSQHAPSILIHFINMFLFNYSOSSNA  
PLYKHQQEVQSFVVMALISVPWMLLIKPFILRASHRKSQQLASRIQEDATENIEGDSSSPSSRSRGQRTS  
ADTHGALDDHGEEFNFGDVVHQAHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVMNSGLQTR  
GWGGIVGVFIIFAVFAVLTVAILLIMEGLSAFLHALRLHWVEFQNKFYVGDGYKFSFSPFKHILDGTAEE

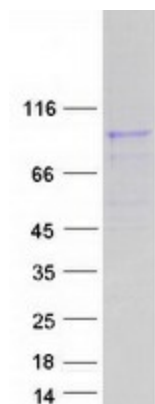
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	96.2 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.



[View online »](#)

<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_065683</a>
<b>Locus ID:</b>	50617
<b>UniProt ID:</b>	<a href="#">Q9HBG4</a> , <a href="#">A0A024R791</a>
<b>RefSeq Size:</b>	3137
<b>Cytogenetics:</b>	7q34
<b>RefSeq ORF:</b>	2520
<b>Synonyms:</b>	A4; ATP6N1B; ATP6N2; DRTA3; RDRTA2; RTA1C; RTADR; STV1; VPH1; VPP2
<b>Summary:</b>	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. This gene is one of four genes in man and mouse that encode different isoforms of the a subunit. Alternatively spliced transcript variants encoding the same protein have been described. Mutations in this gene are associated with renal tubular acidosis associated with preserved hearing. [provided by RefSeq, Jul 2008]
<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 ATP6V0A4 protein (Cat# [TP312179]). The protein was produced from HEK293T cells transfected with ATP6V0A4 cDNA clone (Cat# [RC212179]) using MegaTran 2.0 (Cat# [TT210002]).