

## Product datasheet for TP303317L

### ATP6J (ATP6V1G1) (NM\_004888) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATPase, H <sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G1 (ATP6V1G1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203317 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEAAALGSRGSCS TEVEKETQEKMILQTYFRQNRDEVLDNLLAFVCDIRPEIHENYRING
	<b>TR</b> TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	13.6 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.
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:	<u><a href="#">NP_004879</a></u>
Locus ID:	9550
UniProt ID:	<u><a href="#">O75348</a></u> , <u><a href="#">A0A024R883</a></u>
RefSeq Size:	1611



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Cytogenetics: 9q32

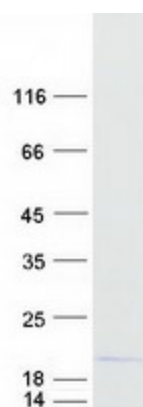
RefSeq ORF: 354

Synonyms: ATP6G; ATP6G1; ATP6GL; ATP6J; Vma10

**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. The protein encoded by this gene is one of three V1 domain G subunit proteins. Pseudogenes of this gene have been characterized. [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 ATP6V1G1 protein (Cat# [TP303317]). The protein was produced from HEK293T cells transfected with ATP6V1G1 cDNA clone (Cat# [RC203317]) using MegaTran 2.0 (Cat# [TT210002]).