

## Product datasheet for **TP321453L**

### ATP6V1G3 (NM\_133262) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human ATPase, H<sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G3 (ATP6V1G3), transcript variant 1, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC221453 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MTSQSQGIHQLLQAEKRAKDKLEEAKKRKGRKRLKQAKEEAMVEIDQYRMQRDKEFRLKQSKIMGSQNNLS  
DEIEEQTLGKIQELNGHYNKYMESVMNQLLSMVCDMKPEIHVNYRATN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 13.7 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:** [NP\\_573569](#)

**Locus ID:** 127124

**UniProt ID:** [Q96LB4](#)

**RefSeq Size:** 645



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**Cytogenetics:** 1q31.3

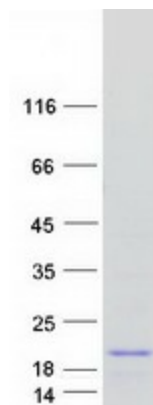
**RefSeq ORF:** 354

**Synonyms:** ATP6G3; 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 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 G subunit proteins. Transcript variants encoding different isoforms have been found for this gene. [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 ATP6V1G3 protein (Cat# [TP321453]). The protein was produced from HEK293T cells transfected with ATP6V1G3 cDNA clone (Cat# [RC221453]) using MegaTran 2.0 (Cat# [TT210002]).