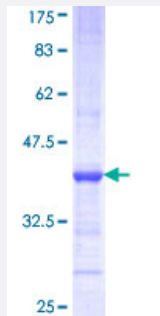


# ATP6V1G3 (Human) Recombinant Protein (Q01)

Catalog # H00127124-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human ATP6V1G3 partial ORF ( NP_573569, 38 a.a. - 118 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	EEAMVEIDQYRMQRDKEFRLKQSKIMGSQNNLSDEIEEQTLGKIQELNGHYNKYMESVMNQLLSM VCDMKPEIHVNYRATN
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	34.65
<b>Interspecies Antigen Sequence</b>	Mouse (80); Rat (77)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — ATP6V1G3

Entrez GeneID [127124](#)

GeneBank Accession# [NM\\_133262](#)

Protein Accession# [NP\\_573569](#)

Gene Name ATP6V1G3

Gene Alias ATP6G3, MGC119810, MGC119813, Vma10

Gene Description ATPase, H<sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G3

Gene Ontology [Hyperlink](#)

**Gene 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]

**Other Designations**

ATPase, H<sup>+</sup> transporting, lysosomal (vacuolar proton pump) subunit G3|ATPase, H<sup>+</sup> transporting, lysosomal 13kD, V1 subunit G|ATPase, H<sup>+</sup> transporting, lysosomal, V1 subunit G3|OTTHUMP0000033686|V-ATPase 13 kDa subunit 3|V-ATPase G subunit 3|V-ATPase G3 subu

## Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Vibrio cholerae infection](#)