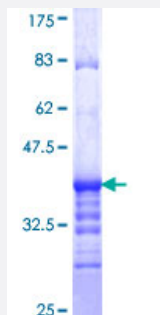


ATP6V1G2 (Human) Recombinant Protein (Q01)

Catalog # H00000534-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATP6V1G2 partial ORF (NP_569730, 41 a.a. - 118 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	QMEVEQYRREREHEFQSKQQAAMGSQGNLSAEVEQATRRQVQGMQSSQQQRNRERVLAQLLG MVCDVRPQVHPNYRISA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	34.32
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	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 — ATP6V1G2

Entrez GeneID [534](#)

GeneBank Accession# [NM_130463](#)

Protein Accession# [NP_569730](#)

Gene Name ATP6V1G2

Gene Alias ATP6G, ATP6G2, NG38, VMA10

Gene Description ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G2

Omim ID [606853](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of three V1 domain G subunit proteins. This gene had previous gene symbols of ATP6G and ATP6G2. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq]

Other Designations ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) subunit G|ATPase, H⁺ transporting, lysosomal, V1 subunit G2|H(+)-transporting two-sector ATPase, subunit G2|OTTHUMP00000029286|OTTHUMP00000036058|OTTHUMP00000036060|V-ATPase 13 kDa subunit 2|V-ATPa

Pathway

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

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Malaria](#)
- [Tobacco Use Disorder](#)