

Recombinant Full Length Human ATP6V1G3 Protein, GST-tagged

Cat. No. ATP6V1G3-1333HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V1G3 full-length ORF (NP_573569.1, 1 a.a. - 118 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	118 amino acids
Description	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]
Molecular Mass	40.3 kDa

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AA Sequence	MTSQSQGIHQ LLQAEKRAKD KLEEAKKRKG KRLKQAKEEA MVEIDQYRMQ RDKEFRLKQS KIMGSQNNLS DEIEEQTLGK IQELNGHYNK YMESVMNQLL SMVCDMKPEI HVNYRATN
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	ATP6V1G3 ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G3 [Homo sapiens]
Official Symbol	ATP6V1G3
Synonyms	ATP6V1G3; ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G3; ATPase, H ⁺ transporting, lysosomal 13kD, V1 subunit G isoform 3 , ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G isoform 3; V-type proton ATPase subunit G 3; ATP6G3; Vma10; V-ATPase G3 subunit; V-ATPase G subunit 3; V-ATPase subunit G 3; V-ATPase 13 kDa subunit 3; vacuolar proton pump G subunit 3; vacuolar proton pump subunit G 3; vacuolar proton pump, subunit G3; vacuolar ATP synthase subunit G 3; ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) subunit G3; MGC119810; MGC119813
Gene ID	127124
mRNA Refseq	NM_133262

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Protein Refseq	NP_573569
MIM	618071
UniProt ID	Q96LB4

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