

Recombinant Full Length Human ATP6V1G2 Protein, GST-tagged

Cat. No. ATP6V1G2-1538HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V1G2 full-length ORF (NP_569730.1, 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 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. Read-through transcription also exists between this gene and the downstream DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B (DDX39B)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	gene. [provided by RefSeq, Feb 2011]
Molecular Mass	40 kDa
AA Sequence	MASQSQGIQQ LLQAEKRAAE KVADARKRKA RRLKQAKEEA QMEVEQYRRE REHEFQSKQQ AAMGSQGNLS AEVEQATRRQ VQGMQSSQQR NRERVLAQLL GMVCDVRPQV HPNYRISA
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	ATP6V1G2 ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G2 [Homo sapiens]
Official Symbol	ATP6V1G2
Synonyms	ATP6V1G2; ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G2; ATP6G, ATP6G2, ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) , ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G isoform 2; V-type proton ATPase subunit G 2; Em:AC004181.3; NG38; Vma10; V-ATPase 13 kDa subunit 2; vacuolar proton pump G subunit 2; vacuolar ATP synthase subunit G 2; H(+)-transporting two-sector ATPase, subunit G2; ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump); ATP6G; VMA10; ATP6G2
Gene ID	534

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mRNA Refseq	NM_001204078
Protein Refseq	NP_001191007
MIM	606853
UniProt ID	O95670

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