

Recombinant Human ATP6V1F, GST-tagged

Cat. No. ATP6V1F-226H Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human ATP6V1F (NP_004222.2) (Met1-Arg119) was expressed with the GST tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	Met1-Arg119
Form	Lyophilized from sterile PBS, pH7.4.
Molecular Mass	The recombinant human ATP6V1F/GST chimera consists of 350 amino acids and has a predicted molecular mass of 40.2 KDa. It migrates as an approximately 40 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Hardcopy of COA with reconstitution instruction is sent along with the products.

 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 INFORMATION

Gene Name [ATP6V1F ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F \[Homo sapiens \]](#)

Official Symbol [ATP6V1F](#)

Synonyms [ATP6V1F](#); [ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F](#); [V-type proton ATPase subunit F](#); [ATP6S14](#); [VATF](#); [Vma7](#); [V-ATPase F subunit](#); [V-ATPase subunit F](#); [ATPase, vacuolar, 14 kD](#); [V-ATPase 14 kDa subunit](#); [vacuolar proton pump F subunit](#); [vacuolar proton pump subunit F](#); [vacuolar ATP synthase subunit F](#); [adenosinetriphosphatase 14k chain](#); [H\(+\)-transporting two-sector ATPase, 14kD subunit](#); [MGC117321](#); [MGC126037](#); [MGC126038](#);

Gene ID [9296](#)

mRNA Refseq [NM_001198909](#)

Protein Refseq [NP_001185838](#)

MIM [607160](#)

UniProt ID [Q16864](#)

Chromosome Location [7q32.1](#)

Pathway [Collecting duct acid secretion, organism-specific biosystem](#); [Collecting duct acid secretion, conserved biosystem](#); [Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem](#); [Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem](#); [Insulin receptor recycling, organism-specific biosystem](#); [Iron uptake and transport, organism-specific biosystem](#); [Metabolic](#)

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pathways, organism-specific biosystem;

Function

ATPase activity, uncoupled; hydrogen ion transmembrane transporter activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; protein binding; proton-transporting ATPase activity, rotational mechanism;

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