

## Recombinant Human ATP6V1F 293 Cell Lysate

**Cat. No.** ATP6V1F-8578HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for ATPase, H <sup>+</sup> transporting, lysosomal 14kDa, V1 subunit F (ATP6V1F) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                       |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**
**Gene Name**

ATP6V1F ATPase, H<sup>+</sup> transporting, lysosomal 14kDa, V1 subunit F [ Homo sapiens ]

**Official Symbol**

ATP6V1F

**Synonyms**

ATP6V1F; ATPase, H<sup>+</sup> 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

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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 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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