# Recombinant Human ATP6V1F 293 Cell Lysate

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

## SPECIFICATION

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| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for ATPase, H+ 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. |
| **Components** | 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). |
| **Size** | 0.1 mg |
| **Storage Instruction** | 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. |
| **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 |

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| | mixture at room temperature for 30 min). Load 5 ug lysate per lane. |

## GENE INFORMATION

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| **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 |

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| | 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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