



# Recombinant Human V-type proton ATPase subunit C 1 (ATP6V1C1)

<b>Product Code</b>	CSB-EP002399HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P21283
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	TEFWLISAP GEKTCQQTWE KLHAATSKNN NLAVTSKFNI PDLKVGTLDV LVGLSDELAK LDAFVEGVVK KVAQYMAVDL EDSKDKVQEN LLANGVDLVT YITRFQWDMA KYPIKQSLKN ISEIIAKGVT QIDNDLKSRA SAYNNLKGNL QNLERKNAGS LLTRSLAEIV KKDDFVLDSE YLVTLVVVP KLNHNDWIKQ YETLAEMVVP RSSNVLSEDQ DSYLCNVTLF RKAVDDFRHK ARENKFIVRD FQYNEEEMKA DKEEMNRLST DKKKQFGPLV RWLKVNFSEA FIAWIHVKAL RVFVESVRLRY GLPVNFQAML LQPNKTKLKK LREVLHELYK HLDSSAAAI DAPMDIPGLN LSQQEYYPYV YYKIDCNLLE FK
<b>Source</b>	E.coli
<b>Target Names</b>	ATP6V1C1
<b>Protein Names</b>	Recommended name: V-type proton ATPase subunit C 1 Short name= V-ATPase subunit C 1 Alternative name(s): Vacuolar proton pump subunit C 1
<b>Expression Region</b>	2-382
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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 gene is one of two genes that encode the V1 domain C subunit proteins and is found ubiquitously. This C subunit is analogous but not homologous to gamma subunit of F-ATPases. Previously, this gene was designated ATP6D.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.