

Recombinant Human ATP6V0A4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP6V0A4-6451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP6V0A4 MS Standard C13 and N15-labeled recombinant protein (NP_065683) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. This gene is one of four genes in man and mouse that encode different isoforms of the a subunit. Alternatively spliced transcript variants encoding the same protein have been described. Mutations in this gene are associated with renal tubular acidosis associated with preserved hearing.
Molecular Mass	96.2 kDa
AA Sequence	MVSVFRSEEMCLSQFLQVEAAYCCVAELGELGLVQFKDLNMVNSFQRKRVNEV

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RRCESLERILRFLEDEMONEIVVQLLEKSPLTPLPREMITLETVLEKLEGELQEANQN
 QQALKQSFLLELTELKYLKKTQDFETETNLADDFFTEDTSGLLELKAVPAYMTGKLG
 FIAGVINRERMASFERLLWRICRGNVYLKFSEMDAPLEDPVTKEEIQKNIFIYQGEQ
 LRQIKKICDGFRTVYPCPEPAVERREMLESVNVRLDLITVITQTESHQRLLQEA
 AANWHSWLKQKMKAVYHILNMCNIDVTQQCVIAEIWFPVADATRIKRALEQGMEL
 SGSSMAPIMTTVQSKTAPPTFNRTNKFTAGFQNIVDAYGVGSYREINPAPYTIITFPFL
 FAVMFGDCGHGTVMLLAALWMILNERRLLSQKTDNEIWNTFFHGRYLILLMGIFSIYT
 GLIYNDCFSKSLNIFGSSWSVQPMFRNGTWNTHVMEESLYLQLDPAIPGVYFGNPY
 PFGIDPIWNLASNKLTFLNSYKMKMSVILGIVQMVFGVILSLFNHIYFRRTLNIILQFIPE
 MIFILCLFGYLVFMIIFKWCCFDVHVSQHAPSILIHFINMFLFNYSOSSNAPLYKHQQE
 VQSFFVVMALISVPWMLLIKPFILRASHRKSQQLQASRIQEDATENIEGDSSSPSSRS
 QRTSADTHGALDDHGEEFNFGDVVHQAHTIEYCLGCISNTASYLRLWALSALAHQ
 LSEVLWTMVMNSGLQTRGWGGIVGVFIIFAVFAVLTVAILLIMEGLSAFLHALRLHWV
 EFQNKFYVGDGYKFSPFSFKHILDGTAEETRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

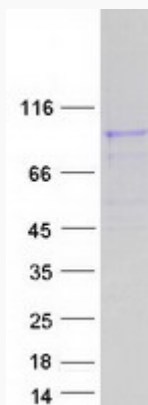
Gene Name [ATP6V0A4 ATPase H⁺ transporting V0 subunit a4 \[Homo sapiens \(human\) \]](#)

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Official Symbol	ATP6V0A4
Synonyms	ATP6V0A4; ATPase, H ⁺ transporting, lysosomal V0 subunit a4; ATP6N1B, ATP6N2, ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non catalytic accessory protein 1B, ATPase, H ⁺ transporting, lysosomal V0 subunit a isoform 4, ATPase, H ⁺ transporting, lysosomal V0 subunit A4, RTA1C; V-type proton ATPase 116 kDa subunit a isoform 4; a4; RDRTA2; RTADR; Stv1; Vph1; VPP2; V-ATPase 116 kDa; vacuolar proton pump, subunit 2; V-type proton ATPase 116 kDa subunit a; vacuolar proton pump 116 kDa accessory subunit; vacuolar proton translocating ATPase 116 kDa subunit a kidney isoform; H(+)-transporting two-sector ATPase, noncatalytic accessory protein 1B; ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1B; ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 2 (38kD); A4; STV1; VPH1; RTA1C; ATP6N2; ATP6N1B; MGC130016; MGC130017;
Gene ID	50617
mRNA Refseq	NM_020632
Protein Refseq	NP_065683
MIM	605239
UniProt ID	Q9HBG4

SDS-PAGE

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