

## Product datasheet for **RC212179**

### **ATP6V0A4 (NM\_020632) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATP6V0A4 (NM_020632) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP6V0A4
Synonyms:	A4; ATP6N1B; ATP6N2; DRTA3; RDRTA2; RTA1C; RTADR; STV1; VPH1; VPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC212179 representing NM\_020632  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTGTCTGTGTTTCGAAGCGAGGAGATGTGTTGTGCACAACCTGTTTCTCCAGGTGGAAGCTGCATATT  
GCTGTGTGGCTGAGCTCGGAGAGCTCGGATTGGTTCAGTTCAAAGATTTAAATATGAATGTGAACAGCTT  
TCAAAGGAAATTTGTGAATGAAGTCAGAAGGTGTGAATCACTGGAGAGAATCCTCCGTTTTCTGGAAGAC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212179 representing NM\_020632  
Red=Cloning site Green=Tags(s)

MVSVFRSEEMCLSQLFLQVEAAYCCVAELGELGLVQFKDLNMVNSFQRKFNVEVRRCESLERILRFLED  
EMQNEIVVQLLEKSPLTPLPREMITLETVLEKLEGEQEANQNQQALKQSFELETYLLKKTQDFET  
ETNLADDFFTEDTSGLLELKAVPAYMTGKLGFIAGVINRERMASFERLLWRICRGNVYLKFSMDAPLED  
PVTKEEIQKNIFIIFYQGEQLRQIKKICDGFRAIVYPCPEPAVERREMLESVNVRLDLITVITQTESH  
RQRLLEAAAANWHSWLKIVQKMKAVYHILNMCNIDVTQQCVIAEIWFPVADATRIKRALEQGMELSGSSM  
APIMTTVQSKTAPPTFNRTNKFTAGFQNIVDAYGVGSYREINPAPYTIITFPFLFAVMFGDCGHGTVMLL  
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TWNTHVMEESLYQLDPAIPGVYFGNPYPFGIDPIWNLASNKLTFLNYSYKMKMSVILGIVQMVFVILSL  
FNHIYFRRTLNIILQFIPEMIFILCLFGYLVFMIIFKWCCFDVHVSQHAPSILIHFINMFLFNYSOSSNA  
PLYKHQEQEVQSFVVMALISVPWMLLIKPFILRASHRKSQEQASRIQEDATENIEGSSSPSSRSGQRTS  
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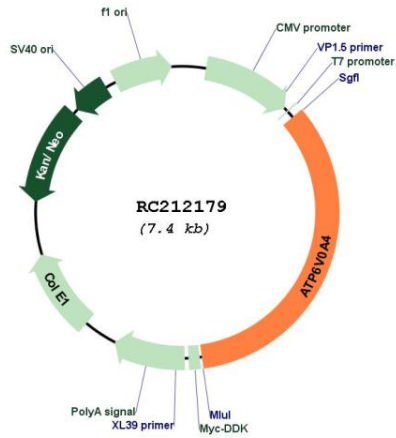
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8010\\_c09.zip](https://cdn.origene.com/chromatograms/mk8010_c09.zip)

**Restriction Sites:** Sgfl-Mlul

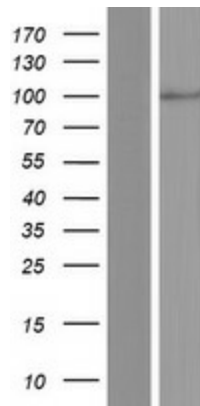


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020632.3</a>
<b>RefSeq Size:</b>	3137 bp
<b>RefSeq ORF:</b>	2523 bp
<b>Locus ID:</b>	50617
<b>UniProt ID:</b>	<a href="#">Q9HBG4</a>
<b>Cytogenetics:</b>	7q34
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>MW:</b>	96.2 kDa
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Jul 2008]</p>

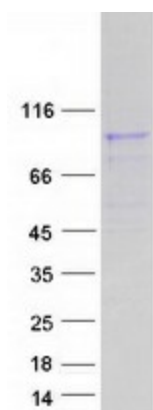
Product images:



Circular map for RC212179



Western blot validation of overexpression lysate (Cat# [LY412426]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212179 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP6V0A4 protein (Cat# [TP312179]). The protein was produced from HEK293T cells transfected with ATP6V0A4 cDNA clone (Cat# RC212179) using MegaTran 2.0 (Cat# [TT210002]).