

## Product datasheet for RC209007

### ATP6V0D2 (NM\_152565) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0D2 (NM_152565) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP6V0D2
Synonyms:	ATP6D2; VMA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209007 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCGAAGGTGCGGAGCTGTACTTCAACGTGGACCATGGCTACCTGGAGGGCCTGGTTTCGAGGATGCA  
AGGCCAGCCTCCTGACCCAGCAAGACTATATCAACCTGGTCCAGTGTGAGACCCTAGAAGACCTGAAAAAT  
TCATCTCCAGACTACTGATTATGGTAACTTTTGGCTAATCACACAAATCCTCTTACTGTTTCCAAAATT  
GACTGAGATGAGGAAAAGACTATGTGGAGAATTTGAGTATTTCCGGAATCATTCCCTGGAGCCCCTCA  
GCACATTTCTCACCTATATGACGTGCAGTTATATGATAGACAATGTGATTCTGCTGATGAATGGTGCATT  
GCAGAAAAATCTGTGAAAGAAATTCGGGGAAGTGCCACCCCTTGGGCGTTTCACAGAAATGGAAGCT  
GTCAACATTGCAGAGACACCTTCAGATCTCTTAAATGCCATTCTGATCGAAACGCCATTAGCTCCATTCT  
TCCAAGACTGCATGTCTGAAAAATGCTCTAGATGAATGAATTTGAATTGCTACGCAATAAACTATACAA  
GTCTTACCTTGAGGCATTCTATAAATCTGTAAGAATCATGGTGTGTCACAGCAGAAGTTATGTGTCCC  
ATTCTTGAGTTTGGAGCCGACAGACGTGCTTTTATCATCACTCTTAACCTTTGGCACTGAATTGAGCA  
AAGAAGACCGAGAGACCCTCTATCCAACCTTCGGCAAACCTATCCTGAGGGGTTGCGGCTGTTGGCTCA  
AGCAGAAGACTTTGACCAGATGAAGAACGTAGCGGATCATTACGGAGTATACAAACCTTTATTTGAAGCT  
GTAGTGGCAGTGGGGAAAGACATTGGAGGACGTGTTTTACGAGCGTGAGGTACAAATGAATGTGCTGG  
CATTCAACAGACAGTTCCACTACGGTGTGTTTTATGCATATGTAAGCTGAAGGAACAGGAAATAGAAA  
TATTGTGTGGATAGCAGAATGTATTTACAGAGGCATCGAACTAAAATCAACAGTTACATTCCAATTTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC209007 protein sequence  
Red=Cloning site Green=Tags(s)

MLEGAEL YFNVDHGYLEGLVRGCKASLLTQQDYINLVQCETLEDLKIHLQTTDYGNF LANHTNPLTVSKI  
 DTEMKRRLCGEFEYFRNHSLEPLSTFLTYMTC SYMIDNVILLMNGALQKKSVEILGKCHPLGRFTEMEA  
 VNIAETPSDLFNAILIETPLAPFFQDCMSENALDELNIELLRNKLYKSYLEAFYKCKNHGDVTA EVMCP  
 ILEFEADRRRAFIITLNSFGTEL SKEDRETLYPTFGKLYPEGLRLLAQAEDFDQMKNVADHYGVYKPLFEA  
 VGGSGGKTL EDVYEREVQMNVLAFNRQFHYGVFYAYVKLKEQEIRNIVWIAECISQRHRTKINSYIPIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6127\\_a10.zip](https://cdn.origene.com/chromatograms/mk6127_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_152565

**ORF Size:** 1050 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_152565.1](#), [NP\\_689778.1](#)

**RefSeq Size:** 2370 bp

**RefSeq ORF:** 1053 bp

**Locus ID:** 245972

**UniProt ID:** [Q8N8Y2](#)

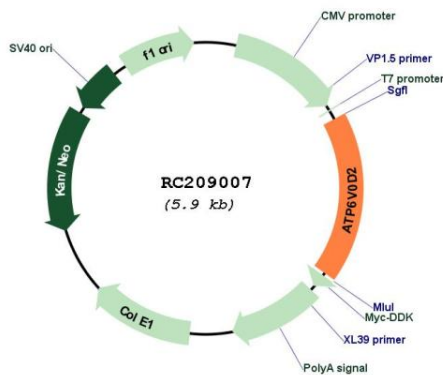
**Cytogenetics:** 8q21.3

**Protein Pathways:** Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

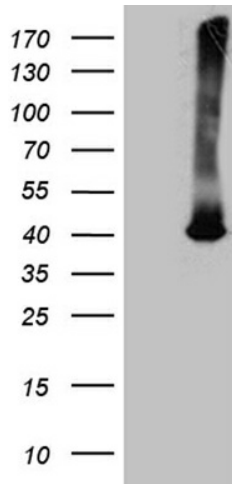
**MW:** 40.4 kDa

**Gene Summary:** Subunit of the integral membrane V0 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system. May play a role in coupling of proton transport and ATP hydrolysis (By similarity). [UniProtKB/Swiss-Prot Function]

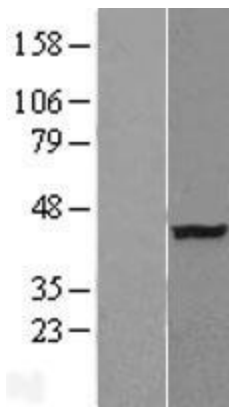
### Product images:



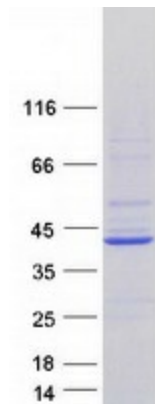
Circular map for RC209007



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ATP6V0D2 (Cat# RC209007, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ATP6V0D2 antibody (Cat# [TA812166]). Positive lysates [LY403477] (100ug) and [LC403477] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403477]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209007 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP6V0D2 protein (Cat# [TP309007]). The protein was produced from HEK293T cells transfected with ATP6V0D2 cDNA clone (Cat# RC209007) using MegaTran 2.0 (Cat# [TT210002]).