

Product datasheet for **MR205301**

Atp6v0d2 (NM_175406) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0d2 (NM_175406) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v0d2
Synonyms:	1620401A02Rik; AI324824; V-ATPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205301 representing NM_175406 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGAGACTGCAGAGCTGTACTTCAATGTGGACCATGGCTACCTGGAGGGCCTGGTTCGAGGATGCA
AAGCCAGCCTCCTAACTCAGCAGGACTATGTCAACCTAGTGCAGTGTGAGACCTTGAAGACCTGAAAAAT
TCATCTCCAGACCACGGACTATGGCAACTTCTGGCTAATGAAACAAATCCTCTCACTGTTTCCAAAATT
GACACGGAGATGAGGAAGAAGCTCTGCAGAGAGTTTGACTATTTCCGGAATCATTCTTGGAGCCCTGA
GCACATTTCTCACCTACATGACATGCAGCTATATGATAGACAATAAATTCTACTTATGAATGGGCCTT
GCAAAAGAAATCTGTGAAAGAAGTTCTAGCCAAGTGCACCCACTGGGCCGTTTCACAGAGATGGAAGCT
GTCAACATTGCAGAGACCCCTCAGATCTTCAAGGCTGTGCTGGTTGAAACACCATAGCTCCATTCT
TTCAAGATTGTATGTCTGAAAACACTCTTGATGAACCTGAATTTGAATTACTGCGCAATAAACTATACAA
GTCTTACCTTGAGGCATTCTACAAATTCTGCAAGGATCACGGTGTATGTCACAGCAGACGTTATGTGTCC
ATTCTTGAGTTTGAGGCCGACAGACGCGCTTAAATCATCACTCTGAACTCATTGGCACTGAACTAAGCA
AAGAAGACAGGGAGACCCTTCCCCACCTGCGGCAGGCTCTATCCAGAGGGGTTGCGGTTGTTAGCTCA
AGCTGAAGACTTTGAGCAGATGAAGAGAGTGGCAGATAAATTATGGAGTTTACAAGCCTTTGTTGACGCT
GTCGGTGGCAGTGGGGGAAGACACTGGAAGACGTTTTCTATGAGAGAGAGGTACAGATGAATGTGCTGG
CATTCAACAGGCAATTCATTATGGTGTGTTTTATGCGTATGTAAGTTGAAGGAGCAAGAGATGAGAAA
TATCGTGTGGATAGCAGAATGCATCTCACAGAGGCATCGAACTAAAATCAACAGCTACATTCCAATTTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205301 representing NM_175406
Red=Cloning site Green=Tags(s)

MLETAELYFNVDHGYLEGLVRGCKASLLTQQDYVNLVQCETLEDLKIHLQTTDYGNFLANETNPLTVSKI
 DTEMRKKLCREFDYFRNHSLEPLSTFLTYMTCASYMIDNIILLMNGALQKKSVEVLAKCHPLGRFTEMEA
 VNIAETPSDLFKAVLVEPLAPFFQDCMSENTLDELNIELLRNKLYKSYLEAFYKFKDHDGVDVADVMCP
 ILEFEADRRALIIITLNSFGTELKEDRETLFPTCGRLYPEGLRLLAQAEDFEQMKRVADNYGVYKPLFDA
 VGGSGGKTLLEDVYFEREVQMNVLAFNRQFHYGVFYAYVKLKEQEMRNIVWIAECISQRHRTKINSYIPIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9065_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_175406

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_175406.3](#), [NP_780615.2](#)

RefSeq Size: 2518 bp

RefSeq ORF: 1053 bp

Locus ID: 242341

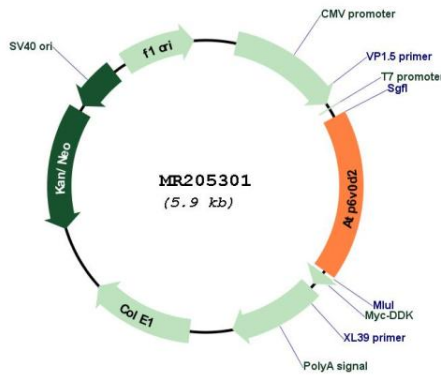
UniProt ID: [Q80SY3](#)

Cytogenetics: 4 A3

MW: 40.5 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 (By similarity). May play a role in coupling of proton transport and ATP hydrolysis. Regulator of osteoclast fusion and bone formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205301