

Product datasheet for MR205337

Atp6v0d1 (NM_013477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0d1 (NM_013477) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v0d1
Synonyms:	Ac39; AI267038; Atp6d; P39; VATX; Vma6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205337 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTTCTTCCGGAGCTCTATTTCAACGTGGACAATGGCTACTTGGAGGGATTAGTGC GCGCCTGA
AGGCCGGGGTCTCAGCCAGGCGGACTACCTCAACCTGGTGCAGTGCAGACGCTCGAGGACTTGAAGCT
GTACCTGCAGAGTACAGATTATGGCAACTTCTGGCCAATGAAGCGTCACCTCTGACGGTGTGAGTATC
GATGACAAGCTCAAGGAGAAGATGGTAGTAGATTCCGCCACATGAGAAACCATGCTTATGAGCCGCTCG
CCAGCTTCTGGACTTCACTAATATAGCTACATGATTGACAACGTGATCCTGCTAATCACAGGCACACT
GCACCAGCGTTCAATAGCTGAACCTGTGCCAAGTGCCATCCGCTAGGCAGCTTTGAGCAGATGGAGGCT
GTGAACATCGCACAGACACCTGCAGAGCTCTACAATGCCATTCTGGTGGACACACCCCTGGCGGCTTTTT
TCCAGGACTGCATCTCAGAGCAGGACCTTGATGAGATGAACATCGAGATAATCCGAAATACGCTTTACAA
GGCCTACTTGGAGTCCTTCTACAAGTTCTGACTCTGTTGGTGGGACCACAGCTGATGCCATGTGTCTCT
ATCCTAGAGTTTGAAGCAGACCGCCGCGCTTTCATCATCACCATCAACTTTTCGGCACAGAGCTGTCCA
AGGAGGACCGTGCCAAGCTCTTCCCGCACTGTGGCCGGCTCTACCCTGAGGGCTTGGCTCAGCTGGCGCG
GGCTGATGACTATGAACAGGTCAAGAATGTAGCTGATTACTACCCGGAATACAACTGCTTTTTGAGGGT
GCAGGTAGCAATCCTGGAGACAAGACCCCTGGAGGACCGGTTTTTTGAACATGAGGTGAAGCTAAACAAGC
TGGCCTTCTGAACAGTCCATTTTGGTGTCTTTATGCCTTTGTGAAGCTTAAGGAACAGGAATGTGCG
CAACATCGTATGGATTGCTGAGTGCATTGCCAGCGCCATCGCGCCAAGATCGACAACACTACATCCCCATC
TTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205337 protein sequence
 Red=Cloning site Green=Tags(s)

MSFFPELYFNVNDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLVLQSTDYGNFLANEASPLTVSVI
 DDKLKEKMVVEFRHMRNHAYEPLASFLDFITYSYIMDNVILLITGTLHQRSIAEPVPKCHPLGSFEQMEA
 VNIAQTPAELYNAILVDTPLAFFQDCISEQLDEMNIIEIRNTLYKAYLESFYKFTLLGGTTADAMCP
 ILEFEADRRRAFIITINSFGTELKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEG
 AGSNPGDKTLEDRFFEHEVKLNKLAFLNQFHFVGFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPI
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013477

ORF Size: 1056 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_013477.1](#), [NM_013477.2](#), [NM_013477.3](#), [NP_038505.2](#)

RefSeq Size: 1617 bp

RefSeq ORF: 1056 bp

Locus ID: 11972

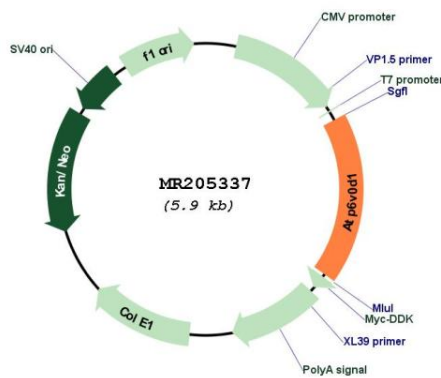
UniProt ID: [P51863](#)

Cytogenetics: 8 D3

MW: 40.3 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. May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium (By similarity). In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205337