

Product datasheet for **MG205337**

Atp6v0d1 (NM_013477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v0d1 (NM_013477) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v0d1
Synonyms:	Ac39; AI267038; Atp6d; P39; VATX; Vma6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205337 representing NM_013477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTTCTTCCCGAGCTCTATTTCAACGTGGACAATGGCTACTTGGAGGGATTAGTGC GCGCCTGA
AGGCCGGGGTGCTCAGCCAGGCGGACTACCTCAACCTGGTGCAGTGCAGACGCTCGAGGACTTGAAGCT
GTACCTGCAGAGTACAGATTATGGCAACTTCTGGCCAATGAAGCGTCACCTCTGACGGTGTGAGTCATC
GATGACAAGCTCAAGGAGAAGATGGTAGTAGAGTTCCGCCACATGAGAAACCATGCTTATGAGCCGCTCG
CCAGCTTCTGGACTTCATAACTTATAGCTACATGATTGACAACGTGATCCTGCTAATCACAGGCACACT
GCACCAGCGTTCAATAGCTGAACCTGTGCCAAGTGCCATCCGCTAGGCAGCTTTGAGCAGATGGAGGCT
GTGAACATCGCACAGACACCTGCAGAGCTCTACAATGCCATTCTGGTGGACACACCCCTGGCGGCTTTT
TCCAGGACTGCATCTCAGAGCAGGACCTTGATGAGATGAACATCGAGATAATCCGAAATACGCTTTACAA
GGCCTACTTGGAGTCCTTCTACAAGTTCTGTACTCTGTTGGTGGGACCACAGCTGATGCCATGTGTCTT
ATCCTAGAGTTTGAAGCAGACCGCCGCGCTTTCATCATCACCATCAACTTTTCGGCACAGAGCTGTCCA
AGGAGGACCGTGCCAAGCTCTTCCGCACTGTGGCCGGCTCTACCCTGAGGGCTTGGCTCAGCTGGCGCG
GGCTGATGACTATGAACAGGTCAAGAATGTAGCTGATTACTACCCGGAATACAACTGCTTTTGGAGGT
GCAGGTAGCAATCCTGGAGACAAGACCTGGAGGACCGGTTTTTGAACATGAGGTGAAGCTAAACAAGC
TGGCCTTCTGAACCAAGTTCCATTTTGGTGTCTTTATGCCTTTGTGAAGCTTAAGGAACAGGAATGTCTG
CAACATCGTATGGATTGCTGAGTGCATTGCCAGCGCCATCGCGCCAAGATCGACAACCTACATCCCCATC
TTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205337 representing NM_013477
 Red=Cloning site Green=Tags(s)

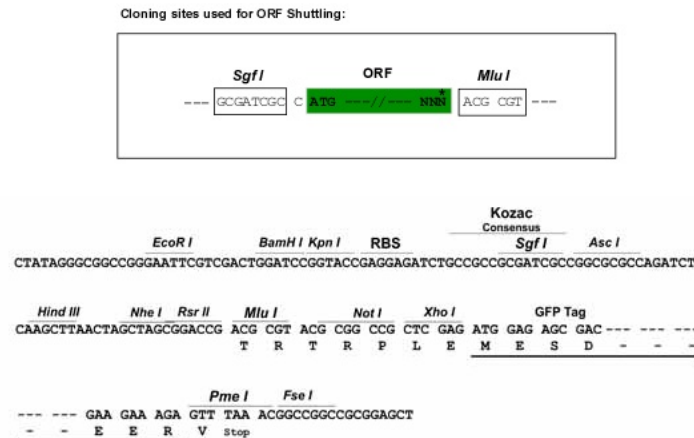
MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLVLQSTDYGNFLANEASPLTVSVI
 DDKLKEKMMVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQRSIAEPVPKCHPLGSFEQMEA
 VNIAQTPAELYNAILVDTPLAAFFQDCISEQDLDEMNIIEIRNTLYKAYLESFYKFTLLGGTTADAMCP
 ILEFEADRRAFIITINSFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEG
 AGSNPGDKTLEDRFFEHEVKNLKLAFNLQFHFVGVFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPI
 F

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_013477

ORF Size: 1053 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013477.2](#), [NP_038505.2](#)

RefSeq Size: 1618 bp

RefSeq ORF: 1056 bp

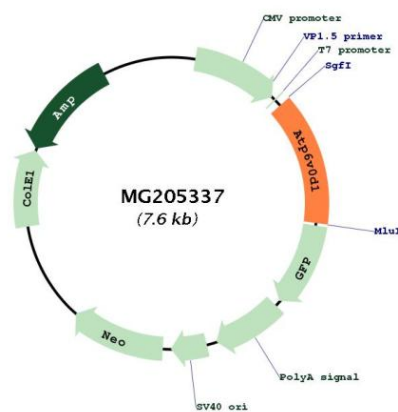
Locus ID: 11972

UniProt ID: [P51863](#)

Cytogenetics: 8 D3

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 MG205337