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Product datasheet for MG209449

Atp6v1a (NM_007508) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp6v1a (NM_007508) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v1a
Synonyms:	AI647066; Atp6a1; Atp6a2; Atp6v1a1; VA68; VPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG209449 representing NM_007508
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTTCTCCAAGCTACCCAAAATCCGCGATGAGGATAAAGAAAGTACATTTGGTTATGTGCATGGAG
TCTCAGGGCCTGTGGTTACAGCCTGTGACATGGCGGGCGCTGCCATGTACGAGCTGGTGAGAGTGGGGCA
CAGCGAGCTGGTTGGAGAAATTATTCGATTGGAAGGTGACATGGCCACCATTCAGGTGTATGAAGAGACT
TCTGGTGTCTCTGTTGGAGACCCCGTACTCCGCACTGGTAAACCTCTCTCGGTCGAGCTGGGTCCCGGGA
TTATGGGAGCCATTTTTGATGGTATACAGAGACCTCTGTCGGATATCAGCAGTCAGACCCAAAGTATCTA
CATCCCCAGAGGAGTCAATGTGTCTGCTCTCAGCAGAGATATCAAATGGGAGTTTATACCCAGCAAAAAC
CTACGGGTTGGTAGTCATATCACTGGTGGAGACATTTATGGGATTGTCAATGAGAACTCCCTCATCAAAC
ACAAAATCATGTTGCCCCCACGTAACAGAGGAAGCGTGACTTACATCGCGCCGCCTGGGAATTATGATGC
GTCCGATGTCGTCCTGGAGCTTGAGTTTGAAGGTGTGAAGGAGAAGTTCAGCATGGTCCAAGTGTGGCCT
GTGCGGCAGGTGCGGCCTGTCACTGAGAAGCTGCCCGCCAATCACCCCTTGCTTACTGGCCAGAGAGTCC
TCGATGCCCTTTTCCCGTGTGTTCAGGGAGGAACTACTGCTATCCCAGGCGCCTTTGGCTGTGGAAAGAC
TGTGATTTCCCAGTCTCTATCCAAGTACTCCAACAGTGACGTCATCATCTATGTCGGCTGCGGTGAGAGA
GGCAACGAGATGTCAGAAGTTCTCCGCGACTTCCCTGAGCTCACCATGGAGGTTGATGGGAAAGTAGAGT
CCATCATGAAGAGGACAGCGCTGGTAGCCAACACCTCCAACATGCCTGTGGCTGCAAGAGAGGCCTCCAT
CTACACTGGAATTACACTATCAGAATATTTCCGTGACATGGGCTACCACGTCAGTATGATGGCGGACTCT
ACCTCTAGATGGGCTGAGGCCCTCAGAGAAATCTCTGGTCGCTTAGCTGAGATGCCTGCAGATAGTGGAT
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GCACTTCACGGAGTTTGTTCCTCTGAGGACCAAAGCTAAGGAGATCCTGCAGGAAGAAGAGGATCTGGCA
GAAATCGTGCAGCTCGTGGGAAAGGCCTCTTTAGCAGAGACGGATAAAATCACTCTGGAGGTAGCAAAAC
TTATTAAAGATGACTTCCTACAGCAAAATGGGTACACTCCTTATGACAGGTTCTGTCCATTCTACAAGAC
AGTGGGGATGCTGTCCAACATGATTTCATTCTATGACATGGCCCGCCGAGCTGTGGAGACCACTGCCCAG
AGTGACAATAAGATCACATGGTCCATTATCCGGGAGCACATGGGGGAGATTCTCTATAAACTCTCCTCCA
TGAAATTCAAGGATCCAGTGAAAGATGGCGAGGCAAAGATCAAGGCCGACTATGCACAGCTTCTTGAAGA
TATGCAGAATGCATTCCGTAGCCTTGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209449 representing NM_007508
Red=Cloning site Green=Tags(s)

MDFSKLPKIRDEDKESTFGYVHGVSGPVVTACDMAGAAMYELVRVGHSELVGEIIRLEGDMATIQVYEET
SGVSVGDPVLRTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQSIYIPRGVNVSALSRDIKWEFIPSKN
LRVGSHITGGDIYGIVNENSLIKHKIMLPPRNRGSVTYIAPPGNYDASDVVLELEFEGVKEKFSMVQVWP
VRQVRPVTEKLPANHPLLTGQRVLDALFPCVQGGTTAIPGAFGCGKTVISQSLSKYSNSDVIIYVGCGER
GNEMSEVLRDFPELTMEVDGKVESIMKRTALVANTSNMPVAAREASIYTGITLSEYFRDMGYHVSMMADS
TSRWAEALREISGRLAEMPADSGYPAYLGARLASFYERAGRVKCLGNPEREGSVSIVGAVSPPGGDFSDP
VTSATLGIVQVFWGLDKKLAQRKHFPSVNWLISYSKYMRALDEYYDKHFTEFVPLRTKAKEILQEEEDLA
EIVQLVGKASLAETDKITLEVAKLIKDDFLQQNGYTPYDRFCPFYKTVGMLSNMISFYDMARRAVETTAQ
SDNKITWSIIREHMGEILYKLSSMKFKDPVKDGEAKIKADYAQLLEDMQNAFRSLED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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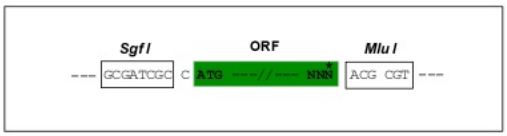
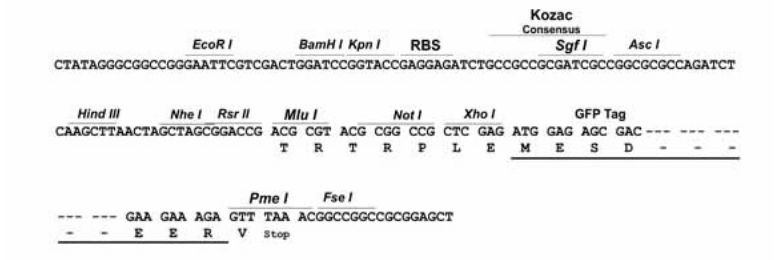
Cloning Scheme:





ACCN:	NM_007508
ORF Size:	1851 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_007508.2
RefSeq Size:	3947 bp
RefSeq ORF:	1854 bp
Locus ID:	11964
UniProt ID:	P50516

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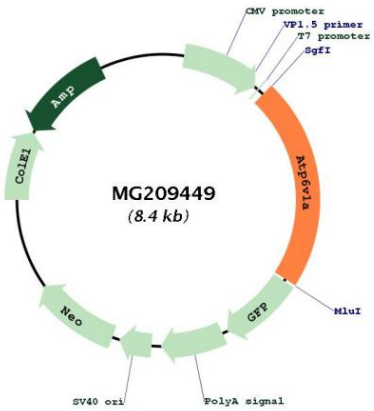
Cytogenetics: 16 B4

Gene Summary: Catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. 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. May play a role in neurite development and synaptic connectivity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209449

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