

## Product datasheet for **MC202829**

### **Atp6v1a (NM\_007508) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v1a (NM_007508) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp6v1a
Synonyms:	A1647066; Atp6a1; Atp6a2; Atp6v1 a1; VA68; VPP2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC038392 sequence for NM\_007508  
 GTCTAGGTACTTTCTGCATTTTCGAGCCCGGGCAGGTAATTTAACACAATGGATTTCTCCAAGCTACC  
 CAAATCCGCGATGAGGATAAAGAAAGTACATTTGGTTATGTGCATGGAGTCTCAGGGCCTGTGGTTACA  
 GCCTGTGACATGGCGGGCGCTGCCATGTACGAGCTGGTGAAGTGGGGCACAGCGAGCTGGTTGGAGAAA  
 TTATTCGATTGGAAGGTGACATGGCCACCATTACAGGTGTATGAAGAGACTTCTGGTGTCTCTGTTGGAGA  
 CCCCCTACTCCGCACTGGTAAACCTCTCTCGGTGAGCTGGGTCCCGGGATTATGGGAGCCATTTTGTGAT  
 GGATACAGAGACCTCTGTCCGATATCAGCAGTACAGCCAAAGTATCTACATCCCCAGAGGAGTCAATG  
 TGTCTGCTCTCAGCAGAGATATCAAATGGGAGTTTATACCCAGCAAAAACCTACGGGTTGGTAGTCATAT  
 CACTGGTGGAGACATTTATGGGATTGTCAATGAGAAGTCCCTCATCAAACACAAAATCATGTTGCCCCCA  
 CGTAACAGAGGAAGCGTGACTTACATCGCGCCGCTGGGAATTATGATGCGTCCGATGTCGTCCTGGAGC  
 TTGAGTTTGAAGGTGTGAAGGAGAAGTTCAGCATGGTCCAAGTGTGGCCTGTGCGGCAGGTGCGGCCTGT  
 CACTGAGAAGCTGCCGCCAATCACCCCTTGCTTACTGGCCAGAGAGTCCCTCGATGCCCTTTTCCCGTGT  
 GTTCAGGGAGGAAGTACTGCTATCCCAGGCGCCTTTGGCTGTGAAAGACTGTGATTTCCAGTCTCTAT  
 CCAAGTACTCAAACAGTACGTCATCATCTATGTCGGCTGCGGTGAGAGAGGCAACGAGATGTCAGAAGT  
 TCTCCGCACTTCCCTGAGCTCACCATGGAGGTTGATGGGAAAGTAGAGTCCATCATGAAGAGGACAGCG  
 CTGGTAGCCAACCTCCAACATGCCTGTGGCTGCAAGAGAGGCCCTCATCTACACTGGAATTACACTAT  
 CAGAATATTTCCGTGACATGGGCTACCACGTACGTATGATGGCGGACTCTACCTTAGATGGGCTGAGGC  
 CCTCAGAGAAATCTCTGGTGCCTTAGCTGAGATGCCTGCAGATAGTGGATACCCTGCATACCTTGGTGCC  
 CGGCTGGCTTCTTTCTATGAGCGAGCAGGCAGAGTGAAATGTCTTGAAACCCCTGAGAGAGAAGGGAGTG  
 TCAGCATTGTAGGAGCAGTTTCTCCACCTGGTGGTGTATTTTCTGATCCAGTCACTTCTGCAACTCTGGG  
 TATTGTTCAAGTGTCTGGGGCTGGATAAGAAGTGTAGCTCAGCGCAAGCACTTCCCCTCTGTCAACTGG  
 CTCATCAGCTACAGCAAGTACATGCGTGCCTGGACGAGTACTATGACAAGCACTTCCGGAGTTTGTTC  
 CTCTGAGGACCAAAGCTAAGGAGATCTGCAGGAAGAAGAGGATCTGGCAGAAATCGTGCAGCTCGTGGG  
 AAAGGCCCTCTTTAGCAGAGACGGATAAAATCACTCTGGAGGTAGCAAACTTATTAAGATGACTTCCTA  
 CAGCAAAATGGGTACTCCTTATGACAGGTTCTGTCCATTCTACAAGACAGTGGGGATGCTGTCCAACA  
 TGATTTTATTCTATGACATGGCCCGCCGAGCTGTGGAGACCCTGCCAGAGTGACAATAAGATCACATG  
 GTCCATTATCCGGGAGCACATGGGGGAGATTCTATAAACTCTCCTCCATGAAATTCAGGATCCAGTG  
 AAAGATGGCGAGGCAAAGATCAAGGCCGACTATGCACAGTCTTGAAGATATGCAGAATGCATTCCGTA  
 GCCTTGAAGACTAGAAGTGTGATTTCTCCCTCTCCACGGCAAGCTCATACGTGATATTTTCTGAAT  
 TTCTCATCTCAAACCTTAGCTTCCATATTGTGCAGCTTTGAGACTAGTGCCTATGTGTGTTCTTGTTC  
 TTTTGTGTTTCTTTGGTAGGTCTTATAAAACAACATTCCTTTGTTCCAGTGTTTGAAGGAGCTAGCTC  
 CCTTACCTTTATCTGAAGTGTGAATGTAGTGCATATGATATACATTGTAAAGATACACATTGTAACATGA  
 TCCATACTGTAACTTGTATGTAAGGTGACTACCCCTTCCCTCATCTCCAGTAACTGTAACAGGACTA  
 CTGCATGTAAGTCTGTTGGGAATGGAAGGCCAGAACTCCATACCGTGGATGGATGGTACTTAGGAAACAA  
 CTCAGCATTTGTAGTCAGACCATTGTAACCTAGTGGTTTGTGAGTAACCATTTTGCAGGAAATACTTC  
 CATTTAAAACATAAAAGATTAATGTTCCAATTTTGTATCAATCAGGACCATTTTGTGGGGCACTTG  
 GGAAGTATTTGTTTTTCAAACAGACATTTGCAAGACTGAACATAATAGATAAATCAGTTACCTCTGAAAA  
 TGTGAAAGAAAGGAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_007508

**Insert Size:** 1854 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC038392](#), [AAH38392](#)

**RefSeq Size:** 2548 bp

**RefSeq ORF:** 1854 bp

**Locus ID:** 11964

**UniProt ID:** [P50516](#)

**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]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.