OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC229428

Atp8a1 (NM_001284345) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp8a1 (NM_001284345) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp8a1
Synonyms:	AI481521; AI853962; APLT; Atp3a2; AW743152; AW822227; B230107D19Rik; ClassI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC229428 representing NM_001284345
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGACCATGCGGAGGACAGTGTCGGAGATCCGCTCGCGCGCGGAAGGTTATGAGAAGACAGATGATG
TTTCAGAGAAGACCTCGCTGGCAGATCAGGAGGAAGTGAGAACCATCTTCATCAACCAGCCTCAGCTGAC
AAAATTCTGCAACAACCACGTCAGTACTGCAAAATACAACGTGATCACATTCCTTCCGAGGTTCCTCTAT
TCTCAGTTCCGAAGAGCGGCTAATTCGTTCTTTCTCTTTATTGCCCTGCTCCAGCAAATTCCTGATGTGT
CGCCGACCGGTCGTTACACAACACTGGTTCCTCTCTTATTTATTTTAGCTGTGGCTGCTATTAAAGAGAT
AATAGAAGATATTAAACGACACAAGGCTGATAATGCTGTGAACAAGAAACAGACACAAGTTTTGAGAAAT
GGTGCATGGGAAATTGTTCACTGGGAAAAGGTAAATGTTGGAGATATAGTTATAATAAAAGGCAAAGAGT
ATATACCTGCTGACACTGTCCTTCTCTCGTCAAGTGAGCCCCAGGCCATGTGCTACATCGAGACATCCAA
CTTAGATGGTGAAACAAACTTGAAAATTAGACAAGGCTTACCGGCAACATCGGATATCAAAGACATTGAC
AGTTTGATGAGAATTTCTGGCAGAATCGAGTGTGAAAGTCCAAACCGACATCTCTACGATTTTGTTGGGA
ACATAAGGCTTGATGGCCATGGCACCGTTCCCCTGGGGGCAGACCAGATCCTTCTCCGAGGAGCTCAGTT
AAGAAATACCCAGTGGGTTCATGGGATAGTTGTCTACACTGGCCACGACACCAAGCTGATGCAGAATTCC
ACAAGCCCACCACTTAAACTCTCCAATGTGGAACGGATTACAAATGTACAAATTCTGATTTTATTTTGCA
TCTTAATTGCCATGTCTCTTGTGTGTTCTGTGGGCTCAGCCATTTGGAACCGAAGGCATTCCGGGAAAGA
CTGGTACCTCCATCTACACTATGGTGGCGCTAGTAACTTTGGACTGAACTTCCTGACTTTCATTATCCTT
TTCAACAACCTCATTCCCATCAGCTTGCTGGTCACATTAGAAGTGGTGAAGTTTACTCAGGCATACTTCA
TAAATTGGGATCTTGACATGCATTATGAGCCCACAGACACCGCAGCAATGGCTCGGACATCTAATCTGAA
TGAGGAACTTGGCCAGGTTAAATACATATTTTCTGACAAAACTGGGACCCTGACATGCAATGTGATGCAG
TTCAAGAAGTGCACCATCGCGGGCGTGGCCTATGGCCATGTCCCTGAACCTGAGGATTATGGGTGCTCGC
CCGATGAATGGCAGAGCTCACAGTTTGGAGATGAAAAAACCTTTAATGACCCGTCGTTGCTGGACAATCT
CCAGAATAACCACCCAACCGCACCTATCATCTGTGAATTTCTCACAATGATGGCCGTCTGCCACACAGCT
GTACCGGAGAGAGAAGGGGACAAGATCATTTATCAGGCTGCATCGCCAGATGAGGGTGCACTGGTCAGAG

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CCGCCAAGCAGTTGAATTTTGTCTTCACTGGAAGAACTCCTGACTCTGTCATCATAGATTCACTGGGGCA
GGAAGAAAGATATGAATTGCTCAATGTCCTAGAGTTCACCAGTGCTAGGAAGAGGATGTCGGTGGTGGTT
CGCACTCCATCCGGGAAGTTACGGCTCTACTGCAAAGGAGCTGACACAGTAATTTATGAACGACTTGCAG
AGACCTCAAAGTACAAAGAAATCACCCTAAAACACTTGGAACAGTTTGCTACAGAAGGGCTGAGGACTTT
GTGTTTTGCTGTGGCTGAGATTTCTGAGAGCGACTTCGAGGAGTGGCGGGCCGTCTACCACCGCGCATCC
ACGTCGGTACAGAACAGGCTGCTGAAGCTGGAGGAGAGCTACGAACTAATTGAAAAGAATCTTCAGCTAC
TTGGAGCTACAGCCATTGAGGATAAATTGCAGGACCAAGTGCCTGAAACCATAGAAACGCTAATGAAGGC
TGACATCAAAATATGGATCCTTACTGGGGACAAGCAAGAAACTGCCATTAATATTGGACACTCCTGTAGA
CTCCTCAAGAGGAACATGGGAATGATCGTGATAAACGAGGGCTCTCTTGACGGCACGAGGGAAACTCTCA
GCCGCCACTGCACCACCCTGGGAGATGCTCTTCGGAAGGAAAATGATTTTGCTCTTATAATTGATGGGAA
GACCCTCAAATATGCCTTAACCTTTGGCGTCCGGCAGTATTTCCTGGACTTAGCTCTGTCCTGCAAAGCT
GTCATTTGCTGCAGGGTTTCTCCTCTTCAGAAGTCCGAGGTTGTCGAGATGGTTAAGAAACAAGTCAAAG
TCATCACACTTGCCATCGGGGATGGAGCAAATGACGTCAGCATGATCCAGACGGCCCATGTGGGTGTTGG
GATAAGCGGCAATGAAGGTTTGCAGGCAGCCAACTCTTCAGATTACTCCATCGCTCAGTTCAAATATTTG
AAGAATTTGTTGATGGTTCACGGTGCCTGGAATTACAATAGAGTCTCCAAGTGTATCCTGTACTGCTTCT
ACAAGAACATCGTGCTCTACATCATCGAGATCTGGTTTGCCTTTGTCAACGGCTTTTCTGGACAGATCCT
CTTTGAAAGATGGTGTATAGGGCTTTATAATGTGATGTTCACAGCGATGCCTCCCTTGACACTTGGAATA
TTTGAGAGATCGTGCAGAAAGGAGAACATGTTGAAGTATCCTGAGTTGTACAAAACATCCCAGAATGCTC
TGGACTTCAATACCAAGGTTTTCTGGGTTCATTGTTTGAATGGCCTCTTCCACTCCGTTATTCTGTTTTG
GTTCCCACTGAAAGCCCTGCAGTATGGCACGGTATTTGGAAATGGGAAAACCTCAGATTACCTGCTTCTG
GGAAACTTTGTTTATACTTTTGTAGTGATAACTGTGTGCTTGAAAGCTGGACTGGAAACCTCCTATTGGA
CATGGTTCAGCCACATCGCCATCTGGGGCAGCATCGCGCTCTGGGTGGTGTTCTTCGGGATCTACTCATC
TCTGTGGCCTGCCGTGCCCATGGCCCCTGACATGTCCGGAGAGGCAGCCATGCTCTTCAGCTCTGGAGTC
TTCTGGGTGGGCTTGCTCTCCATCCCTGTGGCGTCCTTGCTTCTGGATGTGCTGTACAAAGTCATCAAGA
GGACGGCCTTTAAAACCTTAGTGGATGAAGTTCAGGAGCTTGAGGCGAAATCTCAAGACCCGGGCGCAGT
CGTACTTGGAAAGAGCCTCACGGAGAGAGCGCAGCTGCTCAAGAACGTCTTTAAGAAGAACCACGTGAAT
CTGTACCGCTCCGAGTCCCTGCAGCAGAACCTGCTTCACGGCTATGCTTTCTCTCAAGATGAAAACGGCA
TCGTCTCACAGTCTGAAGTCATCAGAGCCTATGACACCACGAAACAGAGGCCCGATGAGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001284345

Insert Size: 3495 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001284345.1, NP_001271274.1
RefSeq Size:	8176 bp
RefSeq ORF:	3495 bp
Locus ID:	11980
UniProt ID:	P70704
Cytogenetics:	5 C3.1
Gene Summary:	Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. In vitro, its ATPase activity is selectively and stereospecifically stimulated by phosphatidylserine (PS). The flippase complex ATP8A1:TMEM30A seems to play a role in regulation of cell migration probably involving flippase-mediated translocation of phosphatidylethanolamine (PE) at the plasma membrane. Acts as aminophospholipid translocase at the plasma membrane in neuronal cells; the activity is associated with hippocampus-dependent learning.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) lacks an alternate exon and contains a different alternate exon in the 5' coding region, compared to variant 1. It encodes isoform c, which is of the same size but lacks an internal segment, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.