

Product datasheet for **MC229290**

Atp9a (NM_001289445) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp9a (NM_001289445) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp9a
Synonyms:	Ila
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229290 representing NM_001289445 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGAATGTCAGCCCAGGTGCTGTGAGTGGCTGAGATGTTGCGGTGGAGGGGAGCCAGGCCCGTA
CTGTCTGGTTGGACACCCCGAGAAGAGGGACCAGCGGTACCCTCGAAATGTCATCAACAACCAGAAGTA
CAATTTCTTCACATTTCTCCTGGGGTGTGTTACGCCAGTTCAGATACTTCTTCAACTTCTACTTCCTG
TTCTCGCCTGCTCGCAGTTCGTCCCAGAGATGAGGCTTGGCGCCCTGTACACCTACTGGGTTCTCTGG
GCTTCGTGCTGGCTGTCACCATCATCCGTGAGGCAGTAGAGGAGATCCGATGTTATGTGCGTGACAAGGA
GATGAACTCCCAGGTCTACAGCCGGCTCACGTCACGAGGGACCGTGAAGGTGAAGAGTTCAAACATCCAG
GTGGGAGACCTCATCCTTGTGAAAAGAACCAGCGGGTCCCTGCTGACATGATCTTCTGAGGACGTCAG
AGAAAAACGGCTCTTGTCTTTCGCGCACGGATCAGCTGGATGGAGAGACAGACTGGAAGCTTCGGCTCCC
GGTGGCCTGCACACAGAGGCTTCCCACGGCTGCTGACCTCCTGCAGATTCGGTCCATGTGTACGCTGAA
GAGCCCAACATCGACATTCACAACCTTCTGGGGACTTTCACCAGGAAGACAGTGACCCTCCGATCAGTG
AGAGCTGAGCATTGAGAACACGCTGTGGGCCCGCACCGTCATAGCATCAGGCAGTGTGTAGGCGTTGT
TCTCTACACTGGCAGAGAACTGCGGAGTGTCAATACTTCCGACCCAGAAAGTAAAGATTGGCCCTGTTT
GACCTGGAGGTGAACTGCCTCACCAAGATCCTGTTTGGTGCCTGGTGGTGGTGTGCTGCTGTCATGGTGG
CCCTGCAGCACTTTCGGGCCGCTGGTACCTGCAGATCATCCGCTTCTGCTCCTGTTTTCAACATCAT
TCCTATCAGCTTGCCTGTGAACTTGGACATGGCAAGATCGTGTACAGCTGGGTGATCCGAGGGATTCC
AAAATCCCAGGACCGTGGTTCGTTCCAGCACAATTCTGAGCAGCTGGGCAGGATTTCTACTTGTCTCA
CAGACAAGACAGGAACCTGACCAGAATGAGATGGTGTCAAGCGGCTGCACCTGGGTACGGTGGCCTA
CGCCTGGACTCCATGGACGAAGTGCAGAGTACATCTTACAGATTTACACCCAGCAATCCAGGATCCA
CCTGCTCAGAAGGGCCCCACGGTACCACCAAGTTTCGGAGGACCATGAGCAGCCGTGTCCACGAGGCTG
TGAAGGCCATTGCACTCTGCCACAACGTGACACCCGTGTACGAGTCCAATGGTGTGACGGACCGGCTGA
GGCTGAGAAGCAGTTTGGAGACTCCTGCCGAGTGTACCAGGCATCCAGCCGGATGAGGTGGCTCTGGTC
CAGTGGACAGAAAGTGTGGGACTGACGCTGGTGGGTCGAGACCAGTCTCCATGCAGCTGAGGACCCCTG



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GTGACCAGGTCTGAATCTCACTATCCTTCAGGTCTTCCCGTTCACCTATGAGAGCAAGCGGATGGGCAT
 CATCGTGCCGGATGAGTCCACGGGGAAATCACGTTTACATGAAGGGAGCAGACGTCGTCATGGCTGGC
 ATTGTCCAGTACAACGACTGGCTGGAGGAGGAGTGTGGCAACATGGCCCGGGAGGGACTACGTGTGCTGG
 TGGTAGCCAAGAAGTCCCTCACAGAGGAGCAGTACCAAGACTTTGAAGCCCGCTACGTCCAGGCTAAGCT
 GAGTGTGCATGACCGCTCGTGAAGGTGGCCACGGTGTGAGAGCCTGGAGATGGAGATGGAGCTGCTG
 TGCCTGACTGGTGTGGAGGACCAGCTGCAGGCAGATGTCAGGCCACGCTGGAGACGCTGCGCAACGCTG
 GCATCAAGGTTTGGATGCTAACAGGGGACAAGCTGGAGACAGCCACGTGCACAGCCAAGAACGCACATCT
 GGTGACCAGAAAACCAAGATATCCATGTTTTCCGACTGGTGACCAACCGGGGAGGCCACCTGGAGCTG
 AATGCCTTCCGTAGGAAGCATGACTGTGCCCTGGTCATCTCTGGAGACTCCCTGGAGTTTGCCTCAAAT
 ACTATGAGTACGAGTTCATGGAAGTGGCCTGCCAGTGCCCGGCTGTGGTGTGCTGCCGCTGTGCCCAAC
 CCAGAAGGCCAGATTGTTCCGGCTGCTCCAGGAACGCACCGGGAAGCTCACCTGTGCAGTAGGGGACGGA
 GGCAATGACGTCAGCATGATCCAGGAATCCGACTGCGGCGTGGGCGTGGAGGGCAAGGAAGGAAGCAGG
 CCTCGCTGGCAGCGGACTTCTCCATCACCCAGTCAAGCATCTCGGCCGTTGCTCATGGTGCACGGTGC
 GAACAGCTACAAGCGCTCGGCGGCCCTCAGTCAGTTTGTGATCCACAGGAGCCTCTGCATCAGCACCATG
 CAGGCTGTCTTCTCGTCTGTGTTCTACTTTGCATCCGTTCTCTACCAAGGCTTCTGTATCATTGGGT
 ATTCTACCATCTACAGATGTTTCCCGTGTTCCTCGTGTGGACAAAGACGTTGAAGTGGAAAGTTCGC
 CATGTTGTATCCTGAGCTCTACAAGGACCTGCTTAAGGGGCGGCCACTGTCTACAAAGACGTTCTTAATT
 TGGGTGTTAATCAGCATCTATCAAGGGAGCACCATCATGTACGGGGCGCTGCTGCTGTTTCGAGTCGGAGT
 TTGTACACATCGTGGCAATCTCCTTACATCCCTCATCTCACTGAGCTACTGATGGTGGCGCTCACCAT
 CCAGACGTGGCACTGGCTCATGACAGTGGCCGAGCTACTCAGCCTGGCCTGCTACATTGCCTCCCTGGTG
 TTCTCCATGAGTTCATCGATGTCTACTTATTGCCACCCTGTCATTCTCTGGAAGGTGTCGTCATCA
 CCTTGGTCAGCTGTCTCCCTCTATGTCTCAAGTACCTGCGGAGACGGTCTCCCCACCCAGCTACTC
 GAAGCTCACTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289445
- Insert Size:** 3096 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_001289445.1](#), [NP_001276374.1](#)

RefSeq Size: 3739 bp

RefSeq ORF: 3096 bp

Locus ID: 11981

Cytogenetics: 2 H3

Gene Summary: Plays a role in regulating membrane trafficking of cargo proteins, namely endosome to plasma membrane recycling and endosome to trans-Golgi network retrograde transport. In complex with MON2 and DOP1B, regulates SNX3 retromer-mediated endosomal sorting of WLS, a transporter of Wnt morphogens in developing tissues. Participates in the formation of endosomal carriers that direct WLS trafficking back to Golgi, away from lysosomal degradation. Appears to be implicated in intercellular communication by negatively regulating the release of exosomes. The flippase activity towards membrane lipids and its role in membrane asymmetry remains to be proved.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) contains an alternate 5' terminal exon and initiates translation at an alternate start codon, compared to variant 1. It encodes isoform 2, which has a shorter and distinct N-terminus, compared to isoform 1.