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 MC223345

Atp9a (NM_015731) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp9a (NM_015731) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp9a
Synonyms:	IIa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223345 representing NM_015731 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACGGACAGCATCCCGCTGCAGCCCGTGCGCCACAAGAAGCGGGTGGACAGTAGGCCGCGCGCGGGGT GCTGTGAGTGGCTGAGATGTTGCGGTGGAGGGGAGCCCAGGCCCCGTACTGTCTGGTTGGGACACCCCGA GAAGAGGGACCAGCGGTACCCTCGAAATGTCATCAACAACCAGAAGTACAATTTCTTCACATTTCTTCCT GGGGTGTTGTTCAGCCAGTTCAGATACTTCTTCAACTTCTACTTCCTGCTTCTCGCCTGCTCGCAGTTCG TCCCAGAGATGAGGCTTGGCGCCCTGTACACCTACTGGGTTCCTCTGGGCTTCGTGCTGGCTGTCACCAT CATCCGTGAGGCAGTAGAGGAGATCCGATGTTATGTGCGTGACAAGGAGATGAACTCCCAGGTCTACAGC CGGCTCACGTCACGAGGGACCGTGAAGGTGAAGAGTTCAAACATCCAGGTGGGAGACCTCATCCTTGTGG AAAAGAACCAGCGGGTCCCTGCTGACATGATCTTCCTGAGGACGTCAGAGAAAAACGGCTCTTGCTTCTT GCGCACGGATCAGCTGGATGGAGAGACAGACTGGAAGCTTCGGCTCCCGGTGGCCTGCACACAGAGGCTT CCCACGGCTGCTGACCTCCTGCAGATTCGGTCCTATGTGTACGCTGAAGAGCCCAACATCGACATTCACA ACTTCCTGGGGACTTTCACCAGGGAAGACAGTGACCCTCCGATCAGTGAGAGTCTGAGCATTGAGAACAC GCTGTGGGCCGGCACCGTCATAGCATCAGGCACTGTTGTAGGCGTTGTTCTCTACACTGGCAGAGAACTG CGGAGTGTCATGAATACTTCCGACCCCAGAAGTAAGATTGGCCTGTTCGACCTGGAGGTGAACTGCCTCA CCAAGATCCTGTTTGGTGCGCTGGTGGTGGTGTCGCTGGTCATGGTGGCCCTGCAGCACTTTGCCGGCCG CTGGTACCTGCAGATCATCCGCTTCCTGCTCCTGTTTTCCAACATCATTCCTATCAGCTTGCGTGTGAAC TTGGACATGGGCAAGATCGTGTACAGCTGGGTGATCCGCAGGGATTCCAAAATCCCCGGGACCGTGGTTC GTTCCAGCACAATTCCTGAGCAGCTGGGCAGGATTTCGTACTTGCTCACAGACAAGACAGGAACCCTGAC CCAGAATGAGATGGTGTTCAAGCGGCTGCACCTGGGTACGGTGGCCTACGGCCTGGACTCCATGGACGAA GTGCAGAGTCACATCTTCAGCATTTACACCCAGCAATCCCAGGATCCACCTGCTCAGAAGGGCCCCACGG TCACCACCAAGGTTCGGAGGACCATGAGCAGCCGTGTCCACGAGGCTGTGAAGGCCATTGCACTCTGCCA CAACGTGACACCCGTGTACGAGTCCAATGGTGTGACGGACCAGGCTGAGGCTGAGAAGCAGTTTGAGGAC TCCTGCCGAGTGTACCAGGCATCCAGCCCGGATGAGGTGGCTCTGGTCCAGTGGACAGAAAGTGTGGGAC

View online »

TGACGCTGGTGGGTCGAGACCAGTCCTCCATGCAGCTGAGGACCCCTGGTGACCAGGTCCTGAATCTCAC
TATCCTTCAGGTCTTCCCGTTCACCTATGAGAGCAAGCGGATGGGCATCATCGTGCGGGATGAGTCCACG
GGGGAAATCACGTTCTACATGAAGGGAGCAGACGTCGTCATGGCTGGCATTGTCCAGTACAACGACTGGC
TGGAGGAGGAGTGTGGCAACATGGCCCGGGAGGGACTACGTGTGCTGGTGGTAGCCAAGAAGTCCCTCAC
AGAGGAGCAGTACCAAGACTTTGAAGCCCGCTACGTCCAGGCTAAGCTGAGTGTGCATGACCGCTCGCTG
AAGGTGGCCACGGTGATCGAGAGCCTGGAGATGGAGATGGAGCTGCTGTGCCTGACTGGTGTGGAGGACC
AGCTGCAGGCAGATGTCAGGCCCACGCTGGAGACGCTGCGCAACGCTGGCATCAAGGTTTGGATGCTAAC
AGGGGACAAGCTGGAGACAGCCACGTGCACAGCCAAGAACGCACATCTGGTGACCAGAAACCAAGATATC
CATGTTTTCCGACTGGTGACCAACCGCGGGGAGGCCCACCTGGAGCTGAATGCCTTCCGTAGGAAGCATG
ACTGTGCCCTGGTCATCTCTGGAGACTCCCTGGAGGTTTGCCTCAAATACTATGAGTACGAGTTCATGGA
ACTGGCCTGCCAGTGCCCGGCTGTGGTGTGCTGCCGCTGTGCCCCAACCCAGAAGGCCCAGATTGTTCGG
CTGCTCCAGGAACGCACCGGGAAGCTCACCTGTGCAGTAGGGGACGGAGGCAATGACGTCAGCATGATCC
AGGAATCCGACTGCGGCGTGGGCGTGGAGGGCAAGGAAGGGAAGCAGGCCTCGCTGGCAGCGGACTTCTC
CATCACCCAGTTCAAGCATCTCGGCCGCTTGCTCATGGTGCACGGTCGGAACAGCTACAAGCGCTCGGCG
GCCCTCAGTCAGTTTGTGATCCACAGGAGCCTCTGCATCAGCACCATGCAGGCTGTCTTCTCGTCTGTGT
TCTACTTTGCATCCGTTCCTCTCTACCAAGGCTTCCTGATCATTGGGTATTCTACCATCTACACGATGTT
TCCCGTGTTCTCCCTGGTTTTGGACAAAGACGTGAAGTCGGAAGTCGCCATGTTGTATCCTGAGCTCTAC
AAGGACCTGCTTAAGGGGCGGCCACTGTCCTACAAGACGTTCTTAATTTGGGTGTTAATCAGCATCTATC
AAGGGAGCACCATCATGTACGGGGCGCTGCTGCTGTTCGAGTCGGAGTTTGTACACATCGTGGCAATCTC
CTTCACATCCCTCATCCTCACTGAGCTACTGATGGTGGCGCTCACCATCCAGACGTGGCACTGGCTCATG
ACAGTGGCCGAGCTACTCAGCCTGGCCTGCTACATTGCCTCCCTGGTGTTCCTCCATGAGTTCATCGATG
TCTACTTCATTGCCACCCTGTCATTCCTCTGGAAGGTGTCCGTCATCACCTTGGTCAGCTGTCTCCCCCT
CTATGTCCTCAAGTACCTGCGGAGACGGTTCTCCCCACCCAGCTACTCGAAGCTCACTTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_015731
Insert Size:	3144 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:	NM_015731.3, NP_056546.2
RefSeq Size:	3529 bp
RefSeq ORF:	3144 bp

Locus ID:	11981
UniProt ID:	O70228
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 (1) encodes the longest isoform (1). 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.