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 MR231618

Atp11a (NM_001293667) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp11a (NM_001293667) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp11a
Synonyms:	4930558F19Rik; Atpc1h; AU040868; Ih
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231618 representing NM_001293667 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGACTGCAGTCTATTGAGGACGCTCGTGCGCAGATACTGTGCAGGGGAAGAGAACTGGGTGGACAGTC GGACCATCTACGTGGGACACAAGGAGCCCCCTCCGGGTGCAGAGGCCTACATTCCACAGAGATACCCCGA CAATAGAATCGTCTCCTCCAAGTACACATTCTGGAACTTCATACCCAAGAACTTATTTGAACAGTTCAGA AGAATAGCCAACTTTTATTTCCTCATCATCTTCCTGGTACAGTTGATCATCGACACACCCACAAGTCCAG TGACAAGCGGGCTCCCACTCTTCTTCGTCATCACTGTCACGGCCATCAAGCAGGGCTATGAAGACTGGCT TCGCCACAAGGCCGACAACGCCATGAACCAGTGTCCCGTGCACTTTATCCAGCATGGCAAGCTGGTCCGC AAGCAGAGTCGGAAGCTGAGGGTTGGGGACATTGTCATGGTGAAGGAAGATGAGACCTTTCCCTGTGACC TGATCTTTCTCTCCAGCAACCGGGCAGATGGGACATGCCATGTCACTACAGCCAGCTTAGACGGAGAGTC GAGCCATAAAACTCACTACGCAGTGCAGGATACCAAGGGCTTCCACACAGAGGCGGATGTTGACAGCTTG CACGCCACGATCGAGTGTGAACAGCCACAGCCTGACCTCTACAAGTTTGTGGGGCGCATCAATGTTTACA ACGACCTGAACGACCCTGTAGTGAGGCCTTTGGGGTCAGAAAACCTGCTTCTCAGAGGAGCCACACTCAA AAACACAGAGAAGATCTTTGGTGTGGCTATCTACACAGGCATGGAGACCAAGATGGCCCTGAACTATCAA TCCAAGTCCCAAAAGAGATCTGCTGTGGAAAAGTCAATGAACACATTCCTGATCGTGTACCTCTGCATCC TGGTGAGCAAGGCCCTGATCAACACGGTGCTGAAGTACGTGTGGCAGAGTGAGCCCTTCCGAGATGAGCC ATGGTACAACGAGAAGACCGAATCCGAGCGCCAGAGGAATTTGTTCCTCAGGGCCTTCACCGACTTCCTG GCCTTCATGGTCCTCTTCAATTACATCATCCCCGTATCCATGTACGTCACCGTGGAGATGCAGAAGTTCC TCGGCTCCTACTTCATCACCTGGGATGAGGACATGTTTGATGAGGAAATGGGGGAAGGGCCTCTGGTCAA CACATCTGATCTGAATGAGGAGTTGGGACAGGTGGAATACATCTTCACTGACAAGACCGGCACGCTTACA GAGAACAACATGGCCTTCAAGGAGTGCTGCATCGAGGGCCATGTCTACGTACCCCATGTCATCTGCAATG GGCAGGTCCTTCCCGACTCTTCTGGCATTGACATGATCGATTCTTCCCCCGGAGTCTGTGGAAGGGAACG GGAGGAGCTGTTTTTCAGGGCCATCTGCCTGTGCCACACTGTCCAAGTGAAAGATGACCATTGTGGGGAT GATGTCGATGGTCCCCAGAAATCTCCAGATGCAAAATCCTGTGTGTACATATCGTCCTCGCCTGATGAGG

View online »

TTGCACTGGTCGAAGGCGTGCAGAGGCTTGGATTCACGTACCTGAGGCTGAAGGACAATTACATGGAAAT
ACTGAACAGGGAGAACGACATAGAGAGATTTGAATTGCTAGAAGTGCTGACCTTTGATTCTGTGCGGAGA
AGAATGAGTGTGATTGTAAAGTCTACTACAGGAGAAATTTATCTGTTTTGCAAAGGAGCAGATTCTTCAA
TATTTCCCCGAGTGATAGAAGGCAAAGTAGACCAGGTCCGGTCTAGAGTGGAGCGCAATGCCGTGGAAGG
GCTGCGAACCCTGTGTGTTGCATACAAGAGGCTCGAGCCAGAGCAGTACGAAGATGCTTGCCGACTGCTA
CAGAGTGCCAAAGTGGCGCTTCAGGACCGGGAGAAGAAGCTGGCAGAAGCCTACGAGCAGATAGAGAAGG
ACCTTGTTCTGCTTGGTGCTACGGCTGTTGAGGACAGGCTCCAGGAGAAAGCTGCTGACACAATTGAGGC
ACTACAGAAGGCAGGCATCAAGGTCTGGGTGCTCACCGGGGACAAGATGGAGACAGCATCCGCCACCTGC
TATGCCTGCAAGCTGTTCCGCAGGAGCACGCAGCTGCTGGAGCTGACCACCAAGAAGCTAGAGGAGCAGA
GCCTGCACGATGTGCTCTTCGACCTGAGCAAGACAGTGCTGCGCTGCAGCGGGAGCATGACCAGGGACTC
CTTCTCGGGGCTCTCCACAGATATGCACGACTATGGTTTAATCATCGATGGAGCAGCACTGTCCTTGATA
ATGAAGCCGAGAGAGGACGGGAGCTCCTCGGGCAACTACCGAGAGCTCTTCCTGGAGATCTGCAGGAACT
GCAGTGCTGTGCTGTGCTGCCGGATGGCACCCTTGCAGAAGGCCCAGATCGTTAAGTTAATCAAATTTTC
AAAGGAGCATCCTATTACCTTAGCAATTGGTGATGGTGCAAATGATGTCAGTATGATCCTGGAGGCCCAC
GTGGGCATAGGTGTCATCGGGAAAGAGGGTCGCCAGGCTGCAAGGAACAGCGACTATGCAATACCCAAGT
TTAAACACTTAAAGAAGATGCTTCTTGTTCATGGGCATTTTTATTATATCAGGATATCTGAGCTTGTGCA
ATACTTCTTTTATAAGAACGTCTGCTTCATTTTCCCTCAGTTTTTGTACCAGTTCTTCTGCGGATTTTCA
CAGCAGACTTTGTACGATACTGCGTATCTGACTCTCTACAACATCAGCTTCACTTCCCTCCCGATTCTCC
TGTACAGCCTCATGGAGCAGCACGTGGGCATTGACGTGCTCAAGAGAGACCCGACCCTCTACAGAGACAT
TGCCAAGAATGCGCTGCTGCGCTGGCGGGTGTTCATTTACTGGACGTTTCTCGGCGTTTTTGACGCTTTG
GTATTTTTCTTTGGTGCTTATTTCATATTTGAGAACACAACCGTGACCATCAACGGACAGATGTTTGGGA
ACTGGACCTTCGGGACGCTGGTGTTCACTGTGATGGTGCTCACTGTCACACTGAAGCTCGCACTGGACAC
GCACTACTGGACTTGGATCAACCACTTTGTCATCTGGGGGTCGCTGCTCTTCTACATTGCCTTCTCCCTG
CTCTGGGGAGGGGTTATCTGGCCGTTCCTCAGTTACCAGAGGATGTACTATGTGTTCATATCCATGCTGT
CCAGTGGGCCTGCCTGGCTGGGTATCATACTGCTTGTCACGGTCGGCCTCCTCCCTGACGTCCTCAAGAA
GGTCCTGTGTAGGCAGCTGTGGCCCACGGCAACGGAGAGAACTCAGCAGAGCACCCGACTCAAAGCATTG
GCCGATGCCACCTCGAACAGCGCCAGGCCCCTGCTGAAGGACTTCTTACCGCAGCCAAGACATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

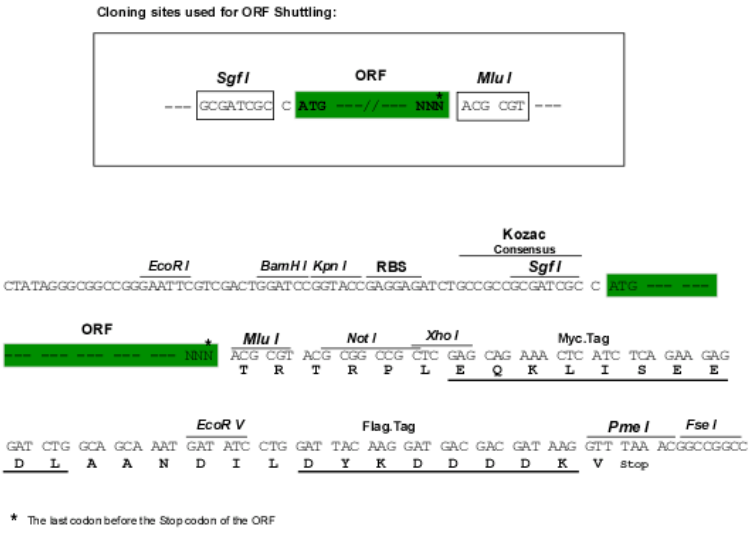
>MR231618 representing NM_001293667
Red=Cloning site Green=Tags(s)

MDCSLLRTLVRRYCAGEENWVDSRTIYVGHKEPPPGAEAYIPQRYPDNRIVSSKYTFWNFIPKNLFEQFR
RIANFYFLIIFLVQLIIDTPTSPVTSGLPLFFVITVTAIKQGYEDWLRHKADNAMNQCPVHFIQHGKLVR
KQSRKLRVGDIVMVKEDETFPCDLIFLSSNRADGTCHVTTASLDGESSHKTHYAVQDTKGFHTEADVDSL
HATIECEQPQPDLYKFVGRINVYNDLNDPVVRPLGSENLLLRGATLKNTEKIFGVAIYTGMETKMALNYQ
SKSQKRSAVEKSMNTFLIVYLCILVSKALINTVLKYVWQSEPFRDEPWYNEKTESERQRNLFLRAFTDFL
AFMVLFNYIIPVSMYVTVEMQKFLGSYFITWDEDMFDEEMGEGPLVNTSDLNEELGQVEYIFTDKTGTLT
ENNMAFKECCIEGHVYVPHVICNGQVLPDSSGIDMIDSSPGVCGREREELFFRAICLCHTVQVKDDHCGD
DVDGPQKSPDAKSCVYISSSPDEVALVEGVQRLGFTYLRLKDNYMEILNRENDIERFELLEVLTFDSVRR
RMSVIVKSTTGEIYLFCKGADSSIFPRVIEGKVDQVRSRVERNAVEGLRTLCVAYKRLEPEQYEDACRLL
QSAKVALQDREKKLAEAYEQIEKDLVLLGATAVEDRLQEKAADTIEALQKAGIKVWVLTGDKMETASATC
YACKLFRRSTQLLELTTKKLEEQSLHDVLFDLSKTVLRCSGSMTRDSFSGLSTDMHDYGLIIDGAALSLI
MKPREDGSSSGNYRELFLEICRNCSAVLCCRMAPLQKAQIVKLIKFSKEHPITLAIGDGANDVSMILEAH
VGIGVIGKEGRQAARNSDYAIPKFKHLKKMLLVHGHFYYIRISELVQYFFYKNVCFIFPQFLYQFFCGFS
QQTLYDTAYLTLYNISFTSLPILLYSLMEQHVGIDVLKRDPTLYRDIAKNALLRWRVFIYWTFLGVFDAL
VFFFGAYFIFENTTVTINGQMFGNWTFGTLVFTVMVLTVTLKLALDTHYWTWINHFVIWGSLLFYIAFSL
LWGGVIWPFLSYQRMYYVFISMLSSGPAWLGIILLVTVGLLPDVLKKVLCRQLWPTATERTQQSTRLKAL
ADATSNSARPLLKDFLPQPRHV

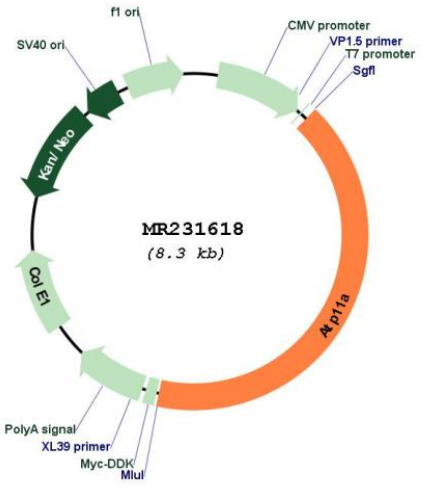
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001293667
ORF Size:	3426 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_001293667.1, NP_001280596.1
RefSeq Size:	7547 bp
RefSeq ORF:	3429 bp
Locus ID:	50770
Cytogenetics:	8 A1.1
MW:	131.1 kDa

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 (By similarity).[UniProtKB/Swiss-Prot Function]