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 MC223678

Atp11c (NM_001037863) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp11c (NM_001037863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp11c
Synonyms:	A330005H02Rik; AI315324; Ig
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223678 representing NM_001037863 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTCCGCCGGACCCTCAACCGTTTGTGTGCTGGAGAAGAGAAACGAGTTGGTACACGCACAGTGTTTG TTGGCAATCATCCCATTTCTGGAACAGAACCTTATATTGCGCAAAGATTTTGTGATAATAGAATAGTCTC ATCTAAGTATACACTTTGGAATTTCCTCCCTAAGAATTTGTTTGAACAGTTTAGAAGAATTGCGAATTTT TATTTCCTCATCATTTTCCTTGTACAGGTCACAGTAGACACACCAACCAGCCCAGTTACCAGTGGACTTC CACTTTTTTTCGTTATAACTGTTACAGCAATCAAGCAGGGGTATGAAGATTGGCTTAGACACAGAGCTGA TAATGAAGTTAACAAAAGTGCTGTTTATATTATTGAAAATGCAAAGCGAGTGAGGAAAGAAAGTGAAAAA ATCAAGGTTGGTGATGTAGTAGAAGTACAGGCAAATGAAACCTTTCCCTGTGATCTTATACTTCTGTCAT CCTGCACAACTGATGGAACCTGTTATGTCACTACAGCCAGTCTTGATGGTGAATCTAATTGCAAGACACA TTATGCAGTACGAGATACCATTGCACTGTGTACAGCCGAATCCATTGATAATCTCCGAGCAACAATTGAA TGTGAGCAGCCTCAACCTGATCTCTACAGGTTTGTTGGGCGAATCAGTATCTATAGTAATAGTATTGAGG CTGTTGCCAGGTCTTTGGGACCTGAAAATCTTTTGCTGAAAGGAGCCACACTTAAAAATACCAAGAAGAT ATATGGAGTTGCTGTTTACACTGGGATGGAAACCAAAATGGCTTTGAACTACCAAGGGAAATCTCAGAAA TGTTCTGCTGTTGAAAAATCTATTAATGCCTTCTTGATTGTTTATTTATTTATCTTACTGACCAAAGCTG CAGTATGCACAACTCTTAAGTATGTTTGGCAAAGTTCCCCATACAATGATGAACCATGGTATAACCAAAA GACTCAAAAGGAACGGGAAACTTTTCAGGTTTTGAAAATGTTCACTGACTTTTTATCATTCATGGTTCTT TTCAACTTCATTATACCTGTCTCCATGTATGTCACAGTAGAAATGCAGAAATTTTTAGGGTCATTCTTTA TTTCATGGGATAAAGACTTTTTTGATGAAGAAATTAATGAAGGAGCCTTGGTTAATACATCAGACCTTAA TGAAGAACTTGGTCAGGTGGACTATGTATTTACAGATAAGACTGGGACACTCACTGAAAATAGCATGGAA TTCATTGAATGCTGCATAGATGGGCACAAATATAAAGGCACAACTCAGGAAGTTGATGGATTATCTCAGA CTGATGGGCCCTTAGCCTATTTTGATAAAGCAGATAAGAACCGAGAGGCACTCTTTCTCCGTGCCCTATG CTTATGTCACACTGTAGAAATGAAAACAAATGATGATGTTGATGGACCTGTAGAAGGAGCCGGATTCACA TATATCTCCTCCTCACCAGATGAAATAGCTTTGGTGAAAGGAGCTAAAAGGTTTGGGTTCACATTTTTGG

View online »

GAAATCAGAATGGATATATCAGAGTAGAGAACCAAAGAAAAGAAATAGAAGAGTATGAACTTCTCCACAC
CTTAAATTTTGATTCTGTCCGCCGACGTATGAGTGTAATTGTAAGGACCCAAAAAGGAGATATTCTACTT
TTCTGTAAAGGAGCAGATTCATCAATTTTTCCCAGGGTACATAGCCATCAAATTGAGTTAACCAAAGACC
ATGTGGAACGTAATGCAATGGATGGGTATCGGACTCTTTGTGTAGCCTTCAAAGAAATTCCTCCAGATGA
TTTTGAAAGAATCAATGCACAACTAGTAGAGGCAAAAATGGCCCTACAAGATAGAGAAGAAAAACTGGAA
AAGGTTTTTGATGAGATTGAGACTAACATGAATTTAATTGGAGCCACTGCTGTGGAAGACAAGCTGCAAG
ATCAGGCTGCAGAGACCATTGAAGCTCTCCATGCAGCTGGCTTAAAAGTCTGGGTGCTTACTGGGGACAA
GATGGAAACAGCCAAATCTACTTGCTATGCCTGCCGCCTTTTCCAAACCAATACTGAGCTCTTGGAACTG
ACCACAAAAACCATTGAAGAGAGTGAAAGGAAAGAAGATCGATTACATGAACTGCTAATAGAATATCGTA
AGAAGTTGCTGCATGAATTTCCTAAAAGCACTAGAAGCCTTAAAAAAGCATGGACAGAACATCAGGAATA
TGGATTAATCATTGATGGCTCCACATTGTCACTCATACTAAATTCTAGTCAAGATTGTAGTTCAAACAAC
TATAAAAGTATTTTTCTACAAATCTGTATGAAATGCACTGCAGTGCTCTGCTGCCGGATGGCACCATTAC
AAAAAGCCCAGATTGTCAGAATGGTGAAGAACTTGAAAGGCAGCCCCATAACACTGTCAATAGGTGATGG
TGCCAATGATGTCAGTATGATTTTGGAATCCCATGTGGGAATAGGTATTAAAGGAAAAGAAGGCCGTCAA
GCAGCCAGGAATAGTGATTATTCTGTTCCAAAGTTTAAGCATTTAAAGAAACTGCTATTGGTTCATGGAC
ATCTATACTATGTGAGAATAGCACATCTTGTACAATATTTCTTCTACAAGAACCTTTGTTTCATTTTGCC
ACAATTTTTGTACCAGTTCTTCTGTGGATTCTCACAACAGCCACTCTATGATGCTGCTTATCTTACAATG
TACAATATCTGTTTCACATCCCTGCCCATCCTGGCTTATAGTCTACTGGAACAGCACATCAACATTGATA
CTCTGACCGCAGACCCTCGATTGTATATGAAAATTACCGGTAATGCTATGTTACAGTTGGGGCCCTTCTT
ACATTGGACATTTCTGGCTGCATTTGAAGGGACAGTATTCTTCTTTGGGACTTATTTCCTTTTTCAGACT
TCATCCTTAGAAGACAATGGAAAGATTTATGGAAATTGGACATTTGGAACCATTGTTTTTACAGTCTTAG
TATTCACCGTAACTCTGAAGCTCGCCTTGGATACCCGGTTCTGGACATGGATAAATCATTTTGTGATTTG
GGGTTCTCTAGCCTTTTATGTTTTTTTCTCATTCTTCTGGGGAGGAATTATTTGGCCTTTTCTGAAACAA
CAGAGAATGTATTTTGTGTTTGCTCAAATGCTCTGTTCTGTATCCACATGGTTGGCTATAATCCTTTTAA
TATTTATCAGCCTTTTCCCTGAGATTCTCCTAATAGTTGTAAAGAATGTTCGAAGAAGAAGTGCCAGGAG
AAATCTGAGCTGTAGAAGGGCATCTGACTCATTATCCGCCAGACCTTCAGTCAGACCTCTTCTTTTACGA
ACATTCTCAGACGAATCTAATATATTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001037863

Insert Size: 3390 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_001037863.1, NP_001032952.1
RefSeq Size:	6070 bp
RefSeq ORF:	3390 bp
Locus ID:	320940
UniProt ID:	Q9QZW0
Cytogenetics:	X A6
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. In the cell membrane of erythrocytes, it is required to maintain phosphatidylserine (PS) in the inner leaflet preventing its exposure on the surface. This asymmetric distribution is critical for the survival of erythrocytes in circulation since externalized PS is a phagocytic signal for splenic macrophages (By similarity). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. Required for B cell differentiation past the pro-B cell stage (PubMed:21423173). Seems to mediate phosphatidylserine (PS) flipping in pro-B cells (PubMed:21423172). May be involved in the transport of cholestatic bile acids (PubMed:21518881).[UniProtKB/Swiss-Prot Function]